

Level: 3rd Year Bachelor SI  
Course: Compilation

Saturday 17 January 2025  
Duration 1h 30 m

Last Name: .....  
First Name: .....  
Group: .....

## Final Exam

### Exercise 01: Choose the right answers (6 pts)

**1. Which statements about parsing tables are correct?**

- a. They are constructed during lexical analysis ☐
- b. They guide the parser's actions based on state and input symbol ☐
- c. They are independent of the grammar ☐

**3. Which task cannot be handled by lexical analysis?**

- a. Distinguishing identifiers from keywords ☐
- b. Detecting an illegal character ☐
- c. Detecting missing parentheses ☐

**5. A shift/reduce conflict indicates that:**

- a. The input program contains a syntax error ☐
- b. The grammar is ambiguous or unsuitable for the parsing method ☐
- c. The grammar is not regular ☐

**2. Which statement about top-down parsing is correct?**

- a. It is more powerful than bottom-up parsing ☐
- b. It always requires backtracking ☐
- c. It cannot handle left recursion ☐

**4. A syntax error is detected when:**

- a. The token sequence violates the grammar ☐
- b. The program produces an incorrect result ☐
- c. A token does not match any regular expression ☐

**6. A grammar transformation that removes left recursion**

- a. Preserves the language but may change the parse tree ☐
- b. Changes the language generated by the grammar ☐
- c. Is required for all LR parsers ☐

### Exercise 02: (4 pts)

In LR parsing, explain how the constructed item automaton can be used to determine that the grammar is not **LR (0)**, **SLR (1)**, **LR (1)**, or **LALR (1)**.

### Exercise 03: (5 pts)

As part of its digital services, the Algerian Ministry of Transport requires automatic validation of vehicle license plate numbers. A valid Algerian license plate contains only digits and follows the format: **zzzzzz-yyy-xx**.

**Question:** Write a Flex program that reads a list of plates separated by commas and terminated by a semicolon and classifies each plate as valid or invalid.

**Example:**

| Input                                    | Output                                    |
|------------------------------------------|-------------------------------------------|
| 433338-102-02,56897-301-16,776898-49-44; | The license plate 433338-102-02 is valid  |
|                                          | The license plate 56897-301-16 is invalid |
|                                          | The license plate 776898-49-44 is invalid |

### Exercise 04: (5 pts)

Given the following grammar:  $G_1 : \begin{cases} S \rightarrow BB \\ B \rightarrow aB \mid b \end{cases}$

- Is the grammar  $G_1$  **SLR (1)**? Justify your answer.
- Using  $G_1$ , analyze the string "aabaab".

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### Exercise 01: Choose the right answers (6 pts)

**1. Which statements about parsing tables are correct?**

- a. They are constructed during lexical analysis ☐
- b. They guide the parser's actions based on state and input symbol ☒
- c. They are independent of the grammar ☐

**3. Which task cannot be handled by lexical analysis?**

- a. Distinguishing identifiers from keywords ☐
- b. Detecting an illegal character ☐
- c. Detecting missing parentheses ☒

**5. A shift/reduce conflict indicates that:** 1 pts \* 6

- a. The input program contains a syntax error ☐
- b. The grammar is ambiguous or unsuitable for the parsing method ☒
- c. The grammar is not regular ☐

**2. Which statement about top-down parsing is correct?**

- a. It is more powerful than bottom-up parsing ☐
- b. It always requires backtracking ☐
- c. It cannot handle left recursion ☒

**4. A syntax error is detected when:**

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- b. The program produces an incorrect result ☐
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**6. A grammar transformation that removes left recursion**

- a. Preserves the language but may change the parse tree ☒
- b. Changes the language generated by the grammar ☐
- c. Is required for all LR parsers ☐

### Exercise 02: (4 pts)

In LR parsing, explain how the constructed item automaton can be used to determine that the grammar is not **LR (0)**, **SLR (1)**, **LR (1)**, or **LALR (1)**.

1. A Grammar is not **LR (0)** if any state in the automaton contains: 0.5 pts \* 6
  - a. **A Shift/Reduce Conflict:** A state has both a shift item ( $A \rightarrow .\alpha$ ) and a final production ( $B \rightarrow \beta.$ ).
  - b. **A Reduce/Reduce Conflict:** A state contains two or more different final productions ( $A \rightarrow \alpha.$  and  $B \rightarrow \beta.$ ).
2. Grammar is not **SLR (1)** if any state in the automaton contains:
  - a. **A Shift/Reduce Conflict:** A state with a shift on terminal  $\alpha$  ( $A \rightarrow .\alpha$ ) and a final production  $B \rightarrow \beta.$  with  $\alpha$  in  $Follow(B)$ .
  - b. **A Reduce/Reduce Conflict:** A state contains two or more different final productions with overlapping follows ( $A \rightarrow \alpha., B \rightarrow \beta.$  and  $Follow(A) \cap Follow(B) \neq \emptyset$ ).
3. Grammar is not **LR (1)** if any state in the automaton contains:
  - a. **A Shift/Reduce Conflict:** A state with a shift on terminal  $\alpha$  ( $A \rightarrow .\alpha, b$ ) and a final production  $B \rightarrow \beta., \alpha$  with  $\alpha$  in the lookahead.
  - b. **A Reduce/Reduce Conflict:** A state contains two or more different final productions with the same lookahead ( $A \rightarrow \alpha., \gamma$  and  $B \rightarrow \beta., \gamma$ ).
4. Grammar is not **LALR (1)** if any state in the automaton contains:
  - a. **A Reduce/Reduce Conflict:** A merged state contains two or more different final productions with the same lookahead ( $A \rightarrow \alpha., \gamma$  and  $B \rightarrow \beta., \gamma$ ). 1 pts

### Exercise 03: (5 pts)

As part of its digital services, the Algerian Ministry of Transport requires automatic validation of vehicle license plate numbers. A valid Algerian license plate contains only digits and follows the format: **zzzzzz-yyy-xx**.

**Question:** Write a Flex program that reads a list of plates separated by commas and terminated by a semicolon and classifies each plate as valid or invalid.

**Example:**

| Input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Output                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| 433338-102-02,56897-301-16,776898-49-44;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | The license plate 433338-102-02 is valid  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | The license plate 56897-301-16 is invalid |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | The license plate 776898-49-44 is invalid |
| <pre> %{     STUCTURE 1 pts %}  %x EROOR 0.25 pts  %% [0-9]{6}-[0-9]{3}-[0-9]{2} {printf("The license plate %s is valid\n"                                 , yytext) ;} 0.5 pts ,                               {} 0.5 pts ;                               {return 0;} 0.5 pts .                               {printf("The license plate %s",yytext);                                 BEGIN ERROR;} 0.5 + 0.25 pts  &lt;Error&gt;{     ;       {printf(" is invalid\n"); return 0;} 0.5 pts     ,       {printf(" is invalid\n");BEGIN INITIAL;} 0.5 pts     .       {printf("%s",yytext);} 0.5 pts }  %% int yywrap(){ return 1; } int main() {     yylex();     return 0; } </pre> |                                           |

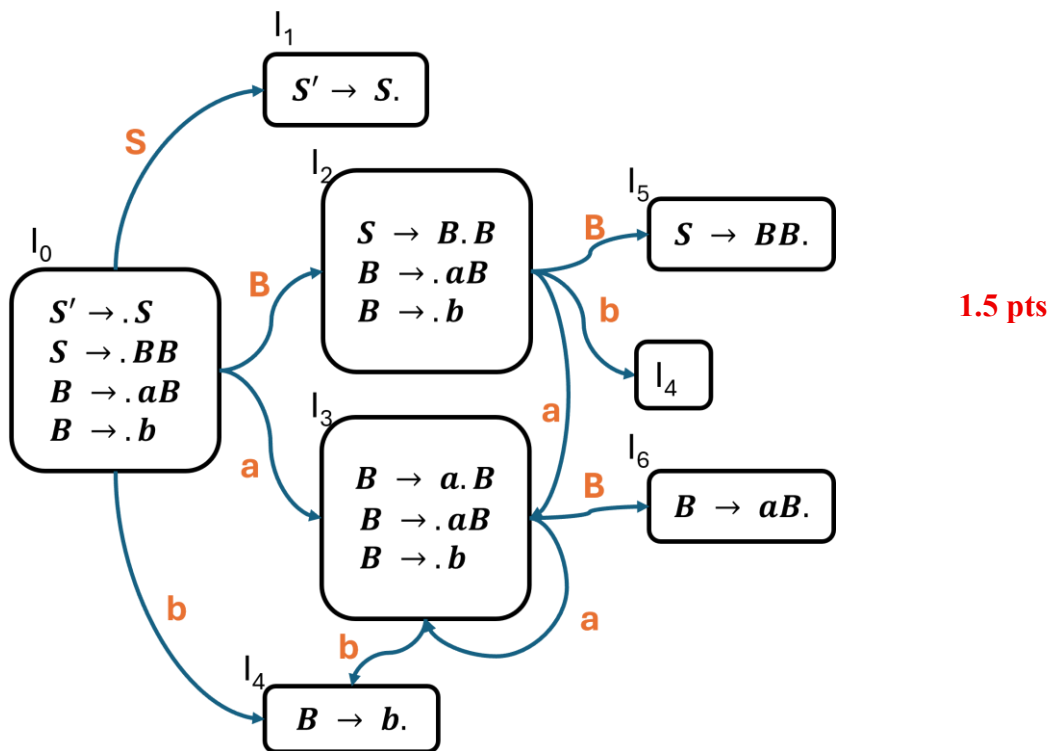
### Exercise 04: (5 pts)

Given the following grammar:  $G_1 : \begin{cases} S \rightarrow BB \\ B \rightarrow aB \mid b \end{cases}$

1. Is the grammar  $G_1$  SLR (1)? Justify your answer.

To prove that the grammar is SLR (1) we start by **augmenting the grammar** then we **build the automaton**.

$$G_1 : \begin{cases} S' \rightarrow S\$ \\ S \rightarrow BB \\ B \rightarrow aB \mid b \end{cases}$$



Then using the automaton, we draw the SLR (1) Table.

Before drawing the table, we must calculate the FOLLOW sets which will be as follows

**Follow(S) = { $\$$ }**

**Follow(B) = {a, b,  $\$$ }**

1 pts

| States | Action |       |        | Go To |       |
|--------|--------|-------|--------|-------|-------|
|        | a      | b     | $\$$   | S     | B     |
| 0      | S3     | S4    | Error  | 1     | 2     |
| 1      | Error  | Error | Accept | Error | Error |
| 2      | S3     | S4    | Error  | Error | 5     |
| 3      | S3     | S4    | Error  | Error | 6     |
| 4      | R3     | R3    | R3     | Error | Error |
| 5      | Error  | Error | R1     | Error | Error |
| 6      | R2     | R2    | R2     | Error | Error |

1.5 pts

2. Using  $G_1$ , analyze the string "aabaab". 1 pts

| Stack     | Input       | Action                  |
|-----------|-------------|-------------------------|
| 0         | aabaab $\$$ | Shift(a), state = 3     |
| 0a3       | abaab $\$$  | Shift(a), state = 3     |
| 0a3a3     | baab $\$$   | Shift(b), state = 4     |
| 0a3a3b4   | aab $\$$    | R( $B \rightarrow b$ )  |
| 0a3a3B    | aab $\$$    | State = 6               |
| 0a3a3B6   | aab $\$$    | R( $B \rightarrow aB$ ) |
| 0a3B      | aab $\$$    | State = 6               |
| 0a3B6     | aab $\$$    | R( $B \rightarrow aB$ ) |
| 0B        | aab $\$$    | State = 2               |
| 0B2       | aab $\$$    | Shift(a), state = 3     |
| 0B2a3     | ab $\$$     | Shift(a), state = 3     |
| 0B2a3a3   | b $\$$      | Shift(b), state = 4     |
| 0B2a3a3b4 | $\$$        | R( $B \rightarrow b$ )  |
| 0B2a3a3B  | $\$$        | State = 6               |
| 0B2a3a3B6 | $\$$        | R( $B \rightarrow aB$ ) |

|         |    |                       |
|---------|----|-----------------------|
| 0B2a3B  | \$ | State = 6             |
| 0B2a3B6 | \$ | $R(B \rightarrow aB)$ |
| 0B2B    | \$ | State = 5             |
| 0B2B5   | \$ | $R(S \rightarrow BB)$ |
| 0S      | \$ | State = 1             |
| 0S1     | \$ | <b>ACCEPT</b>         |



Année Académique:

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Filière:

Informatique

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systèmes informatiques

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Licence 3ème Année

Matière

Compilation

Section/Groupe

Section25/26

Domaine:

Mathématiques et Informatique

Période:

Semestre 5

Enseignant:

SILEM Abdelheq

PV des notes des examens par matière (Enseignant)

| #  | Matricule    | Nom | Prénom | Note Examen | Note corrigée | Signature |
|----|--------------|-----|--------|-------------|---------------|-----------|
| 1  | 232334343210 |     |        | 5.0         |               |           |
| 2  | 232334006220 |     |        | 3.5         |               |           |
| 3  | 232334059206 |     |        | 3.0         |               |           |
| 4  | 232334005201 |     |        | 9.0         |               |           |
| 5  | 232334279413 |     |        | 6.75        |               |           |
| 6  | 232334007111 |     |        | 12.0        |               |           |
| 7  | 232334044713 |     |        | 5.75        |               |           |
| 8  | 232334018205 |     |        | 5.0         |               |           |
| 9  | 232334228809 |     |        | 2.0         |               |           |
| 10 | 232334017808 |     |        | 13.0        |               |           |
| 11 | 232334075609 |     |        | 7.5         |               |           |
| 12 | 232334031716 |     |        | 1.0         |               |           |
| 13 | 232334092616 |     |        | 5.5         |               |           |
| 14 | 222234017809 |     |        | 1.0         |               |           |
| 15 | 232334032703 |     |        | 4.75        |               |           |
| 16 | 222234015819 |     |        | 8.0         |               |           |
| 17 | 232334032708 |     |        | 15.5        |               |           |
| 18 | 232334020801 |     |        | 3.0         |               |           |
| 19 | 232334030107 |     |        | 4.5         |               |           |
| 20 | 232334074809 |     |        | 7.0         |               |           |
| 21 | 232334075205 |     |        | 9.0         |               |           |
| 22 | 9797416056   |     |        | 7.5         |               |           |
| 23 | 232334019211 |     |        | 8.5         |               |           |
| 24 | 232334075403 |     |        | 9.0         |               |           |
| 25 | 222234037009 |     |        |             |               |           |
| 26 | 222234005615 |     |        | 4.0         |               |           |
| 27 | 232334041404 |     |        | 9.5         |               |           |
| 28 | 232334020415 |     |        | 8.5         |               |           |
| 29 | 2599344369   |     |        | 2.5         |               |           |
| 30 | 2501406956   |     |        | 3.0         |               |           |
| 31 | 232334039615 |     |        | 3.25        |               |           |
| 32 | 222234006403 |     |        | 5.0         |               |           |
| 33 | 232334075410 |     |        | 3.5         |               |           |
| 34 | 222234020503 |     |        | 6.75        |               |           |
| 35 | 232334019101 |     |        | 3.5         |               |           |
| 36 | 232334010909 |     |        | 6.5         |               |           |
| 37 | 232334403017 |     |        | 3.0         |               |           |
| 38 | 232334005412 |     |        | 3.0         |               |           |
| 39 | 232334061308 |     |        | 1.0         |               |           |
| 40 | 232334009706 |     |        | 7.5         |               |           |
| 41 | 232334101312 |     |        | 5.0         |               |           |
| 42 | 2593326806   |     |        |             |               |           |
| 43 | 232334021019 |     |        | 3.0         |               |           |
| 44 | 232334097209 |     |        | 3.25        |               |           |
| 45 | 232334017318 |     |        | 5.5         |               |           |
| 46 | 222234059220 |     |        | 3.0         |               |           |
| 47 | 212134013517 |     |        | 4.0         |               |           |
| 48 | 232334059801 |     |        | 3.5         |               |           |
| 49 | 222234056005 |     |        | 8.0         |               |           |
| 50 | 222234006401 |     |        | 12.0        |               |           |
| 51 | 212134005202 |     |        |             |               |           |
| 52 | 232334010003 |     |        | 2.0         |               |           |
| 53 | 232334049512 |     |        | 5.0         |               |           |
| 54 | 232334072614 |     |        | 2.0         |               |           |
| 55 | 232334094820 |     |        |             |               |           |
| 56 | 232334021108 |     |        | 7.5         |               |           |
| 57 | 2596249308   |     |        |             |               |           |
| 58 | 232334033611 |     |        | 3.0         |               |           |
| 59 | 232334044413 |     |        | 6.25        |               |           |
| 60 | 232334006603 |     |        | 11.5        |               |           |
| 61 | 232334314509 |     |        | 10.5        |               |           |
| 62 | 222234030518 |     |        | 0.5         |               |           |
| 63 | 232334006317 |     |        | 4.5         |               |           |
| 64 | 232334008606 |     |        | 10.25       |               |           |
| 65 | 232334007410 |     |        | 14.25       |               |           |
| 66 | 222234005711 |     |        | 3.25        |               |           |
| 67 | 2597429470   |     |        |             |               |           |
| 68 | 232334027610 |     |        | 4.5         |               |           |
| 69 | 2599400938   |     |        |             |               |           |
| 70 | 232334030011 |     |        | 7.0         |               |           |
| 71 | 232334019308 |     |        | 11.5        |               |           |
| 72 | 232334305405 |     |        | 11.5        |               |           |
| 73 | 222234053702 |     |        | 8.0         |               |           |
| 74 | 232334095217 |     |        | 4.0         |               |           |
| 75 | 232334167013 |     |        | 3.5         |               |           |
| 76 | 232334096906 |     |        | 4.0         |               |           |

PV des notes des examens par matière (Enseignant)

| #   | Matricule    | Nom | Prénom | Note Examen | Note corrigée | Signature |
|-----|--------------|-----|--------|-------------|---------------|-----------|
| 77  | 232334016805 |     |        | 12.0        |               |           |
| 78  | 232339314410 |     |        | 6.0         |               |           |
| 79  | 232334072506 |     |        | 7.0         |               |           |
| 80  | 222234007012 |     |        | 6.5         |               |           |
| 81  | 222234027404 |     |        | 10.5        |               |           |
| 82  | 191936002466 |     |        |             |               |           |
| 83  | 232334066011 |     |        | 11.5        |               |           |
| 84  | 232334049720 |     |        | 4.5         |               |           |
| 85  | 222234018908 |     |        | 8.5         |               |           |
| 86  | 222234055217 |     |        | 7.5         |               |           |
| 87  | 232334042013 |     |        | 5.5         |               |           |
| 88  | 222234016711 |     |        | 10.0        |               |           |
| 89  | 232335350705 |     |        | 14.0        |               |           |
| 90  | 232334039208 |     |        | 6.0         |               |           |
| 91  | 232334039507 |     |        | 8.5         |               |           |
| 92  | 222234017419 |     |        | 14.5        |               |           |
| 93  | 232334015908 |     |        | 3.0         |               |           |
| 94  | 232334040520 |     |        | 7.0         |               |           |
| 95  | 232334016403 |     |        | 6.0         |               |           |
| 96  | 232334028405 |     |        | 12.5        |               |           |
| 97  | 232334008320 |     |        | 5.0         |               |           |
| 98  | 232334008206 |     |        | 5.0         |               |           |
| 99  | 212134001247 |     |        |             |               |           |
| 100 | 222234008502 |     |        | 1.0         |               |           |
| 101 | 212134004563 |     |        | 7.0         |               |           |
| 102 | 2596410713   |     |        | 2.0         |               |           |
| 103 | 232334045016 |     |        | 7.0         |               |           |
| 104 | 2101410055   |     |        |             |               |           |



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Section/Groupe

Section25/26 / Groupe 1

Domaine:

Mathématiques et Informatique

Période:

Semestre 5

Enseignant:

SILEM Abdelheq

PV des notes CC par matière (Enseignant)

| #  | Matricule    | Nom | Prénom | Note CC | Note corrigée | Signature |
|----|--------------|-----|--------|---------|---------------|-----------|
| 1  | 232334005201 |     |        | 12.0    |               |           |
| 2  | 232334279413 |     |        | 10.0    |               |           |
| 3  | 232334007111 |     |        | 12.0    |               |           |
| 4  | 232334044713 |     |        | 9.0     |               |           |
| 5  | 232334228809 |     |        | 9.0     |               |           |
| 6  | 232334092616 |     |        | 10.0    |               |           |
| 7  | 232334030107 |     |        | 12.0    |               |           |
| 8  | 232334075205 |     |        | 10.0    |               |           |
| 9  | 222234037009 |     |        | 11.0    |               |           |
| 10 | 232334041404 |     |        | 11.0    |               |           |
| 11 | 2501406956   |     |        | 3.0     |               |           |
| 12 | 222234006403 |     |        | 9.0     |               |           |
| 13 | 232334005412 |     |        | 11.0    |               |           |
| 14 | 212134005202 |     |        | 0.0     |               |           |
| 15 | 232334094820 |     |        | 8.0     |               |           |
| 16 | 232334006603 |     |        | 12.0    |               |           |
| 17 | 232334006317 |     |        | 10.0    |               |           |
| 18 | 232334008606 |     |        | 14.0    |               |           |
| 19 | 232334007410 |     |        | 13.0    |               |           |
| 20 | 222234005711 |     |        | 13.0    |               |           |
| 21 | 232334027610 |     |        | 17.0    |               |           |
| 22 | 2599400938   |     |        | 0.0     |               |           |
| 23 | 232334030011 |     |        | 13.0    |               |           |
| 24 | 232334305405 |     |        | 10.0    |               |           |
| 25 | 232334095217 |     |        | 9.0     |               |           |
| 26 | 232334096906 |     |        | 9.0     |               |           |
| 27 | 222234007012 |     |        | 9.0     |               |           |
| 28 | 222234027404 |     |        | 12.0    |               |           |
| 29 | 222234018908 |     |        | 11.0    |               |           |
| 30 | 232335350705 |     |        | 15.0    |               |           |
| 31 | 232334039507 |     |        | 9.0     |               |           |
| 32 | 222234017419 |     |        | 14.0    |               |           |
| 33 | 232334040520 |     |        | 12.0    |               |           |
| 34 | 222234008502 |     |        | 9.0     |               |           |
| 35 | 232334045016 |     |        | 12.0    |               |           |
| 36 | 2101410055   |     |        | 0.0     |               |           |



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Section/Groupe

Section25/26 / Groupe 2

Domaine:

Mathématiques et Informatique

Période:

Semestre 5

Enseignant:

SILEM Abdelheq

PV des notes CC par matière (Enseignant)

| #  | Matricule    | Nom | Prénom | Note CC | Note corrigée | Signature |
|----|--------------|-----|--------|---------|---------------|-----------|
| 1  | 232334006220 |     |        | 10.0    |               |           |
| 2  | 232334059206 |     |        | 9.0     |               |           |
| 3  | 232334018205 |     |        | 12.0    |               |           |
| 4  | 232334017808 |     |        | 18.0    |               |           |
| 5  | 222234017809 |     |        | 11.0    |               |           |
| 6  | 222234015819 |     |        | 12.0    |               |           |
| 7  | 232334032708 |     |        | 20.0    |               |           |
| 8  | 232334020801 |     |        | 9.0     |               |           |
| 9  | 9797416056   |     |        | 14.0    |               |           |
| 10 | 232334019211 |     |        | 14.0    |               |           |
| 11 | 222234005615 |     |        | 16.0    |               |           |
| 12 | 2599344369   |     |        | 6.0     |               |           |
| 13 | 222234020503 |     |        | 13.0    |               |           |
| 14 | 232334019101 |     |        | 10.0    |               |           |
| 15 | 232334010909 |     |        | 7.0     |               |           |
| 16 | 232334009706 |     |        | 10.0    |               |           |
| 17 | 232334101312 |     |        | 11.0    |               |           |
| 18 | 232334021019 |     |        | 10.0    |               |           |
| 19 | 232334017318 |     |        | 14.0    |               |           |
| 20 | 212134013517 |     |        | 10.0    |               |           |
| 21 | 232334059801 |     |        | 9.0     |               |           |
| 22 | 222234056005 |     |        | 14.0    |               |           |
| 23 | 222234006401 |     |        | 16.0    |               |           |
| 24 | 232334010003 |     |        | 8.0     |               |           |
| 25 | 232334021108 |     |        | 11.0    |               |           |
| 26 | 232334033611 |     |        | 12.0    |               |           |
| 27 | 232334044413 |     |        | 16.0    |               |           |
| 28 | 232334314509 |     |        | 16.0    |               |           |
| 29 | 232334019308 |     |        | 16.0    |               |           |
| 30 | 232334167013 |     |        | 9.0     |               |           |
| 31 | 191936002466 |     |        | 0.0     |               |           |
| 32 | 232334066011 |     |        | 19.0    |               |           |
| 33 | 232334049720 |     |        | 8.0     |               |           |
| 34 | 232334042013 |     |        | 10.0    |               |           |
| 35 | 222234016711 |     |        | 11.0    |               |           |
| 36 | 232334039208 |     |        | 11.0    |               |           |
| 37 | 2596410713   |     |        | 8.0     |               |           |



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Informatique

Spécialité:

systèmes informatiques

Niveau:

Licence 3ème Année

Matière

Compilation

Section/Groupe

Section25/26 / Groupe 3

Domaine:

Mathématiques et Informatique

Période:

Semestre 5

Enseignant:

SILEM Abdelheq

PV des notes CC par matière (Enseignant)

| #  | Matricule    | Nom | Prénom | Note CC | Note corrigée | Signature |
|----|--------------|-----|--------|---------|---------------|-----------|
| 1  | 232334343210 |     |        | 10.0    |               |           |
| 2  | 232334075609 |     |        | 12.0    |               |           |
| 3  | 232334031716 |     |        | 10.0    |               |           |
| 4  | 222234008418 |     |        | 10.82   |               |           |
| 5  | 232334032703 |     |        | 10.0    |               |           |
| 6  | 232334074809 |     |        | 11.0    |               |           |
| 7  | 232334075403 |     |        | 12.0    |               |           |
| 8  | 222234038118 |     |        | 10.18   |               |           |
| 9  | 232334020415 |     |        | 12.0    |               |           |
| 10 | 232334039615 |     |        | 10.0    |               |           |
| 11 | 232334075410 |     |        | 9.0     |               |           |
| 12 | 232334403017 |     |        | 6.0     |               |           |
| 13 | 232334061308 |     |        | 11.0    |               |           |
| 14 | 2593326806   |     |        | 0.0     |               |           |
| 15 | 232334097209 |     |        | 11.0    |               |           |
| 16 | 222234059220 |     |        | 11.0    |               |           |
| 17 | 232334049512 |     |        | 10.0    |               |           |
| 18 | 232334072614 |     |        | 9.0     |               |           |
| 19 | 2596249308   |     |        | 2.0     |               |           |
| 20 | 222234030518 |     |        | 9.0     |               |           |
| 21 | 2597429470   |     |        | 0.0     |               |           |
| 22 | 222234053702 |     |        | 11.0    |               |           |
| 23 | 232334016805 |     |        | 12.0    |               |           |
| 24 | 232339314410 |     |        | 13.0    |               |           |
| 25 | 222234359804 |     |        | 5.16    |               |           |
| 26 | 232334072506 |     |        | 11.0    |               |           |
| 27 | 222234055217 |     |        | 11.0    |               |           |
| 28 | 232334015908 |     |        | 10.0    |               |           |
| 29 | 232334016403 |     |        | 12.0    |               |           |
| 30 | 232334028405 |     |        | 14.0    |               |           |
| 31 | 232334008320 |     |        | 13.0    |               |           |
| 32 | 232334008206 |     |        | 11.0    |               |           |
| 33 | 212134001247 |     |        | 11.0    |               |           |
| 34 | 212134004563 |     |        | 11.0    |               |           |



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Section/Groupe

Section25/26 / Groupe 1

Domaine:

Mathématiques et Informatique

Période:

Semestre 5

Enseignant:

SILEM Abdelheq

PV des notes CC par matière (Enseignant)

| #  | Matricule    | Nom | Prénom | Note CC | Note corrigée | Signature |
|----|--------------|-----|--------|---------|---------------|-----------|
| 1  | 232334005201 |     |        | 7.0     |               |           |
| 2  | 232334279413 |     |        | 12.0    |               |           |
| 3  | 232334007111 |     |        | 15.0    |               |           |
| 4  | 232334044713 |     |        | 11.0    |               |           |
| 5  | 232334228809 |     |        | 8.0     |               |           |
| 6  | 232334092616 |     |        | 13.0    |               |           |
| 7  | 232334030107 |     |        | 10.0    |               |           |
| 8  | 232334075205 |     |        | 12.0    |               |           |
| 9  | 222234037009 |     |        | 11.0    |               |           |
| 10 | 232334041404 |     |        | 12.0    |               |           |
| 11 | 2501406956   |     |        | 5.0     |               |           |
| 12 | 222234006403 |     |        | 9.0     |               |           |
| 13 | 232334005412 |     |        | 7.0     |               |           |
| 14 | 212134005202 |     |        | 0.0     |               |           |
| 15 | 232334094820 |     |        | 9.0     |               |           |
| 16 | 232334006603 |     |        | 15.0    |               |           |
| 17 | 232334006317 |     |        | 10.0    |               |           |
| 18 | 232334008606 |     |        | 17.0    |               |           |
| 19 | 232334007410 |     |        | 14.0    |               |           |
| 20 | 222234005711 |     |        | 8.0     |               |           |
| 21 | 232334027610 |     |        | 10.0    |               |           |
| 22 | 2599400938   |     |        | 0.0     |               |           |
| 23 | 232334030011 |     |        | 10.0    |               |           |
| 24 | 232334305405 |     |        | 10.0    |               |           |
| 25 | 232334095217 |     |        | 12.0    |               |           |
| 26 | 232334096906 |     |        | 8.0     |               |           |
| 27 | 222234007012 |     |        | 9.0     |               |           |
| 28 | 222234027404 |     |        | 11.0    |               |           |
| 29 | 222234018908 |     |        | 13.0    |               |           |
| 30 | 232335350705 |     |        | 16.0    |               |           |
| 31 | 232334039507 |     |        | 11.0    |               |           |
| 32 | 222234017419 |     |        | 17.0    |               |           |
| 33 | 232334040520 |     |        | 13.0    |               |           |
| 34 | 222234008502 |     |        | 7.0     |               |           |
| 35 | 232334045016 |     |        | 9.0     |               |           |
| 36 | 2101410055   |     |        | 0.0     |               |           |



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Section25/26 / Groupe 2

Domaine:

Mathématiques et Informatique

Période:

Semestre 5

Enseignant:

SILEM Abdelheq

PV des notes CC par matière (Enseignant)

| #  | Matricule    | Nom | Prénom | Note CC | Note corrigée | Signature |
|----|--------------|-----|--------|---------|---------------|-----------|
| 1  | 232334006220 |     |        | 7.0     |               |           |
| 2  | 232334059206 |     |        | 7.0     |               |           |
| 3  | 232334018205 |     |        | 12.0    |               |           |
| 4  | 232334017808 |     |        | 12.0    |               |           |
| 5  | 222234017809 |     |        | 9.0     |               |           |
| 6  | 222234015819 |     |        | 12.0    |               |           |
| 7  | 232334032708 |     |        | 15.0    |               |           |
| 8  | 232334020801 |     |        | 9.0     |               |           |
| 9  | 9797416056   |     |        | 12.0    |               |           |
| 10 | 232334019211 |     |        | 16.0    |               |           |
| 11 | 222234005615 |     |        | 11.0    |               |           |
| 12 | 2599344369   |     |        | 8.0     |               |           |
| 13 | 222234020503 |     |        | 12.0    |               |           |
| 14 | 232334019101 |     |        | 8.0     |               |           |
| 15 | 232334010909 |     |        | 9.0     |               |           |
| 16 | 232334009706 |     |        | 10.0    |               |           |
| 17 | 232334101312 |     |        | 9.0     |               |           |
| 18 | 232334021019 |     |        | 8.0     |               |           |
| 19 | 232334017318 |     |        | 8.0     |               |           |
| 20 | 212134013517 |     |        | 14.0    |               |           |
| 21 | 232334059801 |     |        | 7.0     |               |           |
| 22 | 222234056005 |     |        | 13.0    |               |           |
| 23 | 222234006401 |     |        | 17.0    |               |           |
| 24 | 232334010003 |     |        | 6.0     |               |           |
| 25 | 232334021108 |     |        | 9.0     |               |           |
| 26 | 232334033611 |     |        | 11.0    |               |           |
| 27 | 232334044413 |     |        | 16.0    |               |           |
| 28 | 232334314509 |     |        | 12.0    |               |           |
| 29 | 232334019308 |     |        | 12.0    |               |           |
| 30 | 232334167013 |     |        | 8.0     |               |           |
| 31 | 191936002466 |     |        | 0.0     |               |           |
| 32 | 232334066011 |     |        | 15.0    |               |           |
| 33 | 232334049720 |     |        | 7.0     |               |           |
| 34 | 232334042013 |     |        | 8.0     |               |           |
| 35 | 222234016711 |     |        | 15.0    |               |           |
| 36 | 232334039208 |     |        | 11.0    |               |           |
| 37 | 2596410713   |     |        | 7.0     |               |           |



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Enseignant:

SILEM Abdelheq

PV des notes CC par matière (Enseignant)

| #  | Matricule    | Nom | Prénom | Note CC | Note corrigée | Signature |
|----|--------------|-----|--------|---------|---------------|-----------|
| 1  | 232334343210 |     |        | 15.0    |               |           |
| 2  | 232334075609 |     |        | 14.0    |               |           |
| 3  | 232334031716 |     |        | 9.0     |               |           |
| 4  | 222234008418 |     |        | 10.82   |               |           |
| 5  | 232334032703 |     |        | 9.0     |               |           |
| 6  | 232334074809 |     |        | 13.0    |               |           |
| 7  | 232334075403 |     |        | 12.0    |               |           |
| 8  | 222234038118 |     |        | 10.18   |               |           |
| 9  | 232334020415 |     |        | 14.0    |               |           |
| 10 | 232334039615 |     |        | 9.0     |               |           |
| 11 | 232334075410 |     |        | 7.0     |               |           |
| 12 | 232334403017 |     |        | 5.0     |               |           |
| 13 | 232334061308 |     |        | 11.0    |               |           |
| 14 | 2593326806   |     |        | 0.0     |               |           |
| 15 | 232334097209 |     |        | 11.0    |               |           |
| 16 | 222234059220 |     |        | 8.0     |               |           |
| 17 | 232334049512 |     |        | 8.0     |               |           |
| 18 | 232334072614 |     |        | 7.0     |               |           |
| 19 | 2596249308   |     |        | 4.0     |               |           |
| 20 | 222234030518 |     |        | 6.0     |               |           |
| 21 | 2597429470   |     |        | 0.0     |               |           |
| 22 | 222234053702 |     |        | 9.0     |               |           |
| 23 | 232334016805 |     |        | 13.0    |               |           |
| 24 | 232339314410 |     |        | 13.0    |               |           |
| 25 | 222234359804 |     |        | 5.16    |               |           |
| 26 | 232334072506 |     |        | 10.0    |               |           |
| 27 | 222234055217 |     |        | 14.0    |               |           |
| 28 | 232334015908 |     |        | 12.0    |               |           |
| 29 | 232334016403 |     |        | 13.0    |               |           |
| 30 | 232334028405 |     |        | 11.0    |               |           |
| 31 | 232334008320 |     |        | 10.0    |               |           |
| 32 | 232334008206 |     |        | 8.0     |               |           |
| 33 | 212134001247 |     |        | 7.0     |               |           |
| 34 | 212134004563 |     |        | 14.0    |               |           |