STUDENT FIRST NAME / LAST NAME:	
---------------------------------	--

CLASS:	

ALGORITHM EXAM #2 1h

SCORE	/ 100
COMMENT	

WARNING /!\

YOU NEED TO CHECK CAREFULLY STEP BY STEP THAT YOUR CODE WORKS

If you code does not work, you will get a 0 score

DO NOT USE INSTRUCTION OR CONDITION THAT ARE NOT ALLOWED

Exercise 1 (15 POINTS)

Complete the table. Use a new line every time my_number changes

SET <my_number> to < 0 >

```
WHILE — my_number ≠ 7

IF — my_number < 2

Jack eats banana
INCREMENT my_number OF <2>

ELSE

Jack eats carrot
SET my_number TO < my_number - 1 >

IF - my_number = 2 or my_number = 4 —
Jack eats apple
INCREMENT my_number OF <3>
```

my_number	What Jack eats?		
0	Eat banana		
2	Eat apple		
5	Eat carrot		
4	Eat apple		

Exercise 2 (15 POINTS)

Draw the path of Jack (with arrows \longrightarrow)

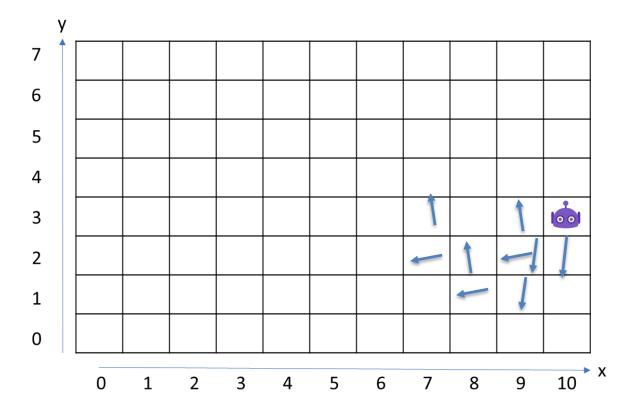
```
SET <my_variable > to < 0 >

WHILE — my_variable < 3

REPEAT <my_variable > times —
Go down

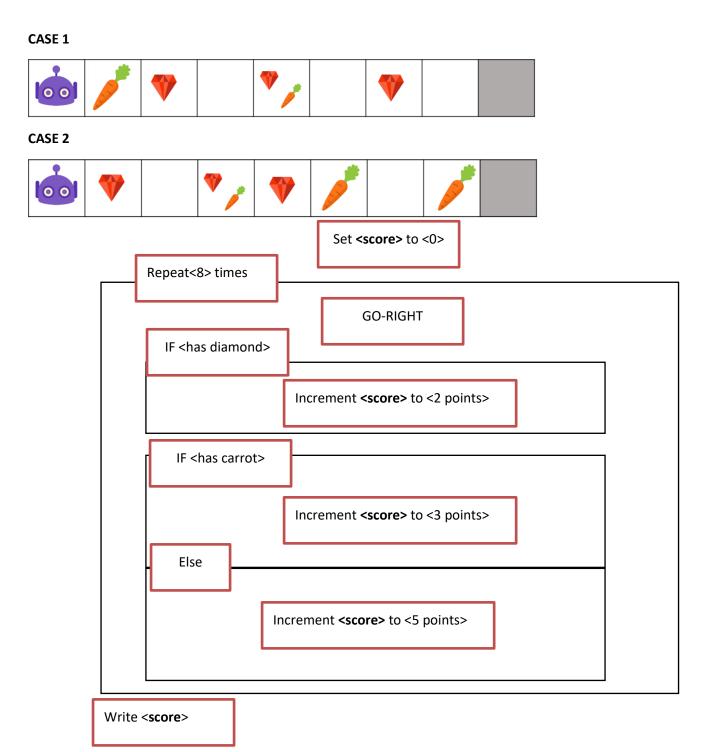
REPEAT <my_variable + 1 > times —
Go left
Go up

INCREMENT <my_variable > OF <1>
```



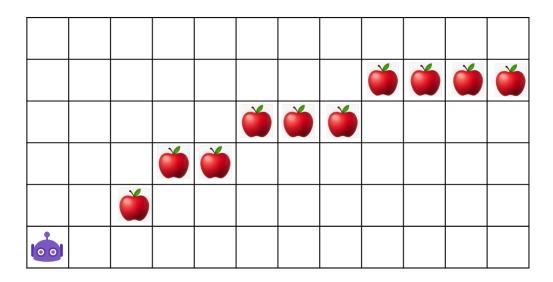
Exercise 3 (25 POINTS)

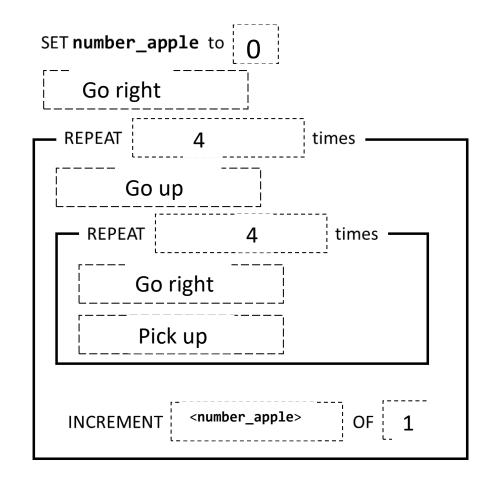
Objective	 Count the score: If has cell diamond: +2 points If has cell carrot: +3 points Write the score on the last cell 				
	Warning: your code must work for the 2 cases!!!!				
Maximum number of instructions	10				
Allowed instructions	GO-RIGHT	IF <condition></condition>			
	SET < score > TO < >	IF <condition> ELSE</condition>			
	INCREMENT < score > OF < >				
	REPEAT < > TIMES	WRITE < score>			
	<score></score>				
Allowed conditions	<has carrot=""></has>				
	<has diamond=""></has>				



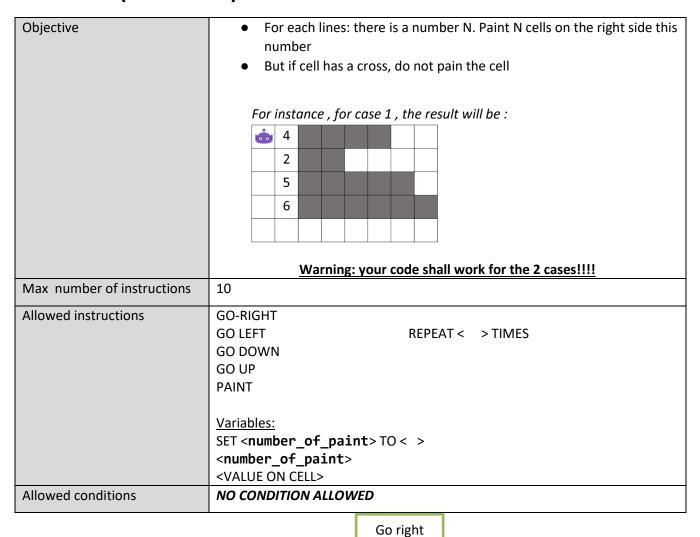
Exercise 4 (20 POINTS)

Objective	Pick up all apples				
Allowed instructions	GO-RIGHT GO-UP PICK-UP IF < CONDITION > SET < number_apple > TO < > IF < CONDITION > ELSE INCREMENT < number apple > OF < >				
	REPEAT < > TIMES WRITE < number_apple > < number_apple > WHILE < CONDITION >				
Allowed conditions	NO CONDITION ALLOWED				





Exercise 5 (25 POINTS)



CASE 1

4			
2			
5			
6			

CASE 2

