

## EXERCISE 1

```
text = "goodMorning"
```

**Q1** – Execute these codes.

Code	Result
text[2]	o
print( text[-2] )	n
print( text[1:2] )	o
print( text[:4] )	good





## EXERCISE 2

- Input text in the console
- Print index of the first letter "O"
  - If no O, write -1

Q1 – What will be the **result** for these outputs?

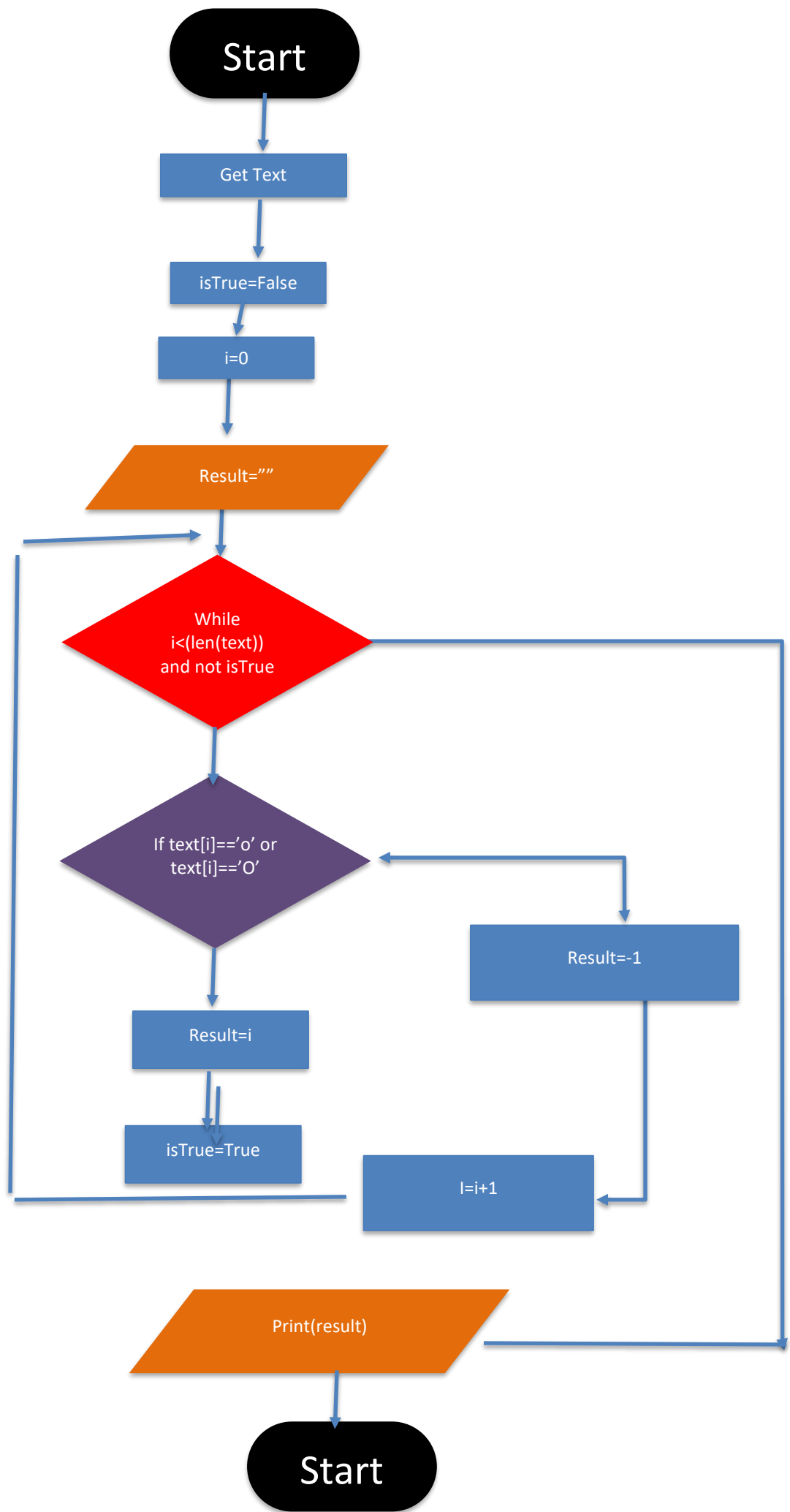
Input	Output
goodMorning	1
Hello	4
Rady	-1

Q2 – Analyze **the symbols** you need to solve this problem.

Element		Do you need it?	For what?
Action		Yes	To put the action
Decision		Yes	To check the action
Repeat		Yes	To repeat the action
Input / Output		Yes	To

Q4

- Propose **two different ways** to solve this problem
- Create two flowcharts
- Analyze what are the **advantages of each** of your solutions.



## EXERCICE 3

- Input two words in the console
- A number: the sum of uppercases in word1 + word2.

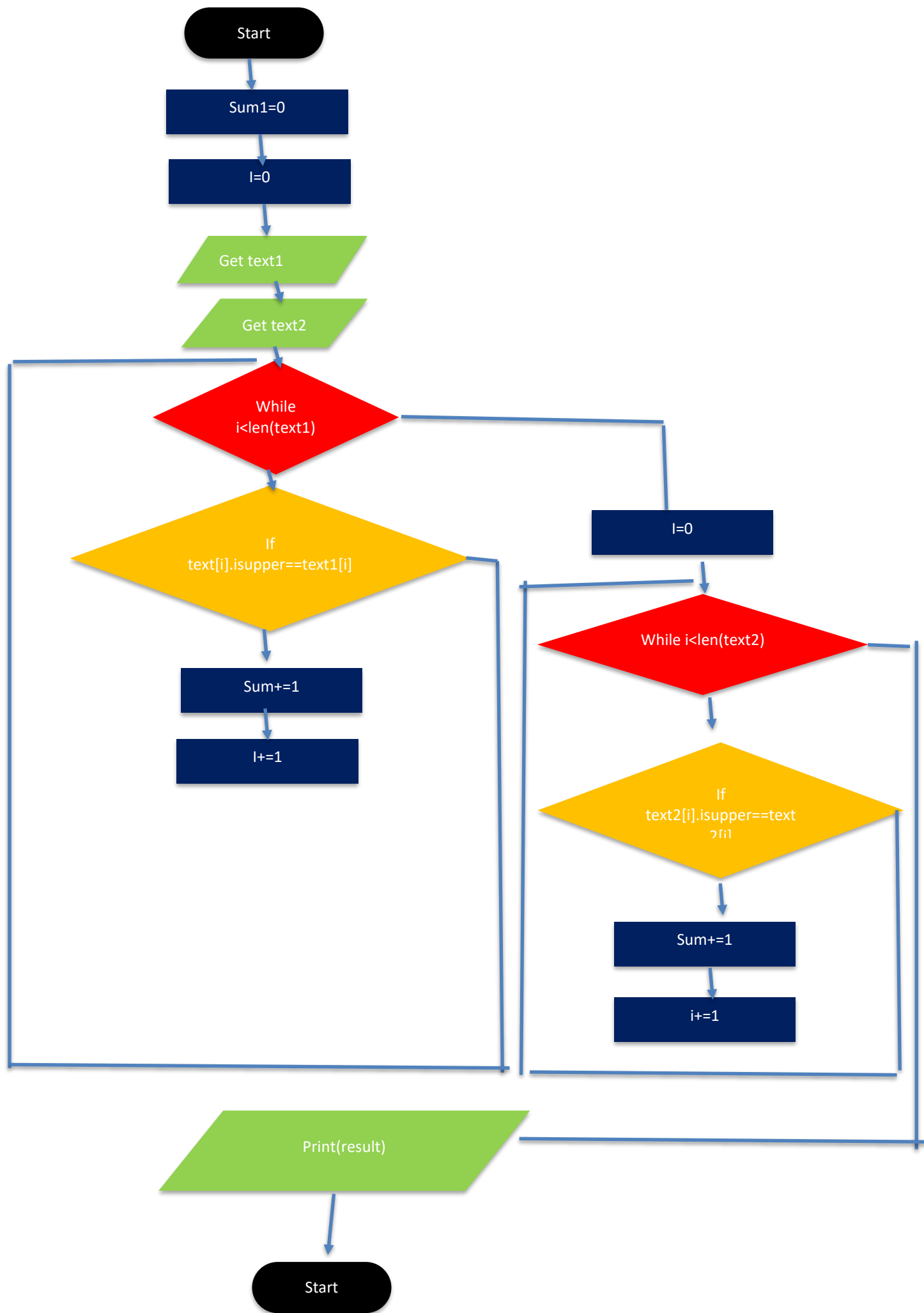
Input	Output	Explanation
aaBDcc abcDE	4	2 uppercases ("B" and "D") in word1 and 2 updaters ("D" and "E") in word2
aaZZD ScCdb	5	3 uppercases ("Z" and "D") in word1 and 2 updaters ("S" and "D") in word2
azerty qwerty	0	

**Q1** – What will be the **result** for these outputs?

Input	Output
QZSd sDFz	5
Asdcv wxsdE	5
ASDX wse	4

**Q2** – Create a flowchart to solve this problem.

- For this question, you **cannot not** use the **repeat** block
- You can only use the 3 other blocs: Action, Decision, Input / Output



## EXERCISE 4

- Input text in the console
- Print index of the **LAST** letter "K"
- If no K, write -1

**Q1** – Complete the test cases.

Input	Output
DDKDDDDKE	6
DDKDDD	2
K	0
AA	-1
xxKK	3
xKKK	3
KKKK	3

**Q2** – What is the bug on this code?

```
text = input()
result = -1
is_finished = False
for index in range(len(text)) :
    letter = text[index]
    if letter == "K" and is_finished:
        result = index
        is_finished = True
print(result)
```

**Q4** – To find the bug, test this code and check if the output is correct.

INPUT	OUTPUT
KK	
KKK	

**Q4** – Correct the code from question 2 to fix the bug.

