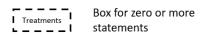
EXERCISE 1

- Input one number word (ex: "1458756") in the console
- Print the sum of numbers which are **before** the first number 7.
- If there is not number 7, print the sum of all numbers.

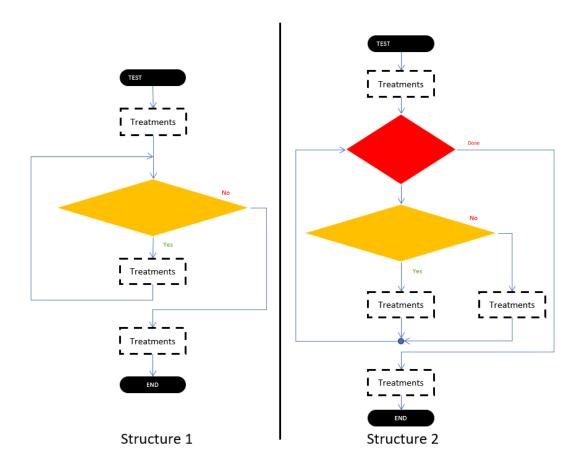
For the session, we will use black boxes:



Q1: What will be the result for these outputs?

Input	Output
148756	13 (13 = 1 + 4 + 8)
426850	25 (25 = 4 + 2 + 6 + 8 + 5 + 0)
159753	
369874	
489632	

Q2: Choose a structure to solve this problem.



Q3: Complete the structure you chose with the missing treatments.

Q4: Find the bug on this code and test it

```
word = input()
pos = 0
sum = 0
while pos < len(word) or word[pos] < 7:
    sum += int(word[pos])
    pos += 1
print(sum)</pre>
```

Q5: Implement another version using a FOR loop, and test it



EXERCISE 2

- Input one number word (ex: "1458756") in the console
- Print the sum of numbers which are **after** the first number 7.
- If there is not number 7, print 0

Q1: What will be the result for these outputs?

Input	Output
148756	11
426850	
159753	
369874	

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

Element	Do you need it?	For what?
Action		
Decision		
Repeat		
Input / Output		

Q3: Change the code of exercise 1 (Q2) to solve this similar problem.

EXERCISE 3

- Input a **text** in the console.
- Count the number of times the "ab" pattern appears in a string.

Q1: What will be the result for these outputs?

	Input	Output
abcdvqzaxb		1
abacab		1
pababacab		3
abdvcbaac		
acb		
abcabcabc		
ocacbab		
O2: Analyse t	he problem and propose a flowchart.	
O3: Execute f	lowchart and complete the execution tah	le
Q3: Execute f	lowchart and complete the execution tab	le.
Q3: Execute f	lowchart and complete the execution tab	le.
STEP		
STEP 1		
STEP 1 2		