- Enter a number (n1) on the console.
- Enter a number (n2) on the console.
- Compare the two number:
 - o If n2 is greater than n1 print the sum of the two numbers.
 - Otherwise print -1.

Q1: What will be the result for these outputs?

| Input | Output |
|-------------|---------------|
| > 3 > 5 | 8 (8 = 3 + 5) |
| > 5 > 5 | -1 |
| > 10 > 8 | -1 |
| > 0 > 5 | 5 |
| > 1 > 3 | 4 |

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

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

Q3: From the following code, draw the corresponding flowchart.

```
n1 = int(input())
n2 = int(input())
sum = -1
if n2 > n1:
sum = n1 + n2
print(sum)
```

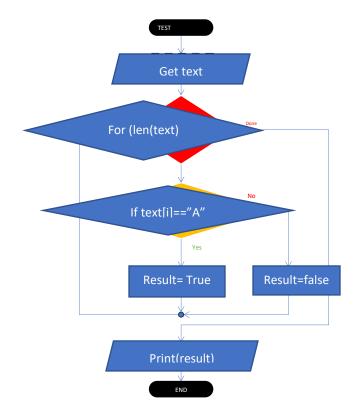
Q4: Solve this poll of question on hackerrank:

https://www.hackerrank.com/work/tests/1404754/questions

• Check if string contains only "A".

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

| Input | Output |
|--------|--------|
| BBBB | False |
| AA | True |
| BBBBA | False |
| AABC | False |
| AAAAAA | True |
| AAAD | False |



Q3: Implement it in Python.

```
text =input()
result=True
for i in range(len(text)):
    if text[i] !="A":
        result=False
print(result)
```

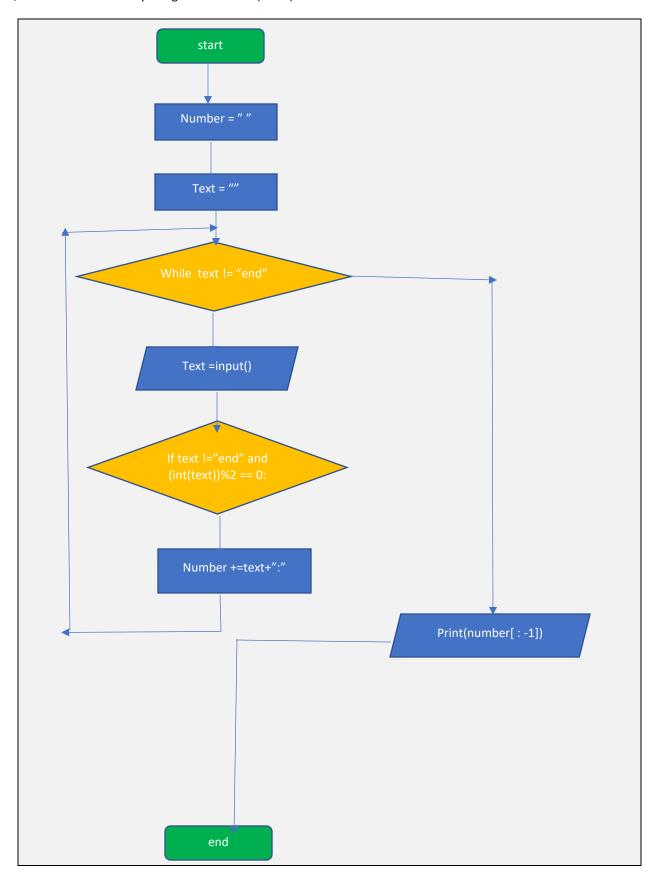
Q4: Execute it and fill up the following result table.

| Input | Output |
|---------|--------|
| BBBAB | False |
| AAAAA | True |
| ABABBBA | False |
| AABCA | False |

- Enter a number again and again until there is no "end" string.
- Print the even number in the console.

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

| Input | Output |
|-------|--------|
| >5 | |
| > 3 | |
| > 2 | 2:10 |
| > 10 | |
| > end | |
| >5 | |
| >4 | |
| > 8 | 4:8:16 |
| > 16 | |
| > end | |
| > 2 | |
| > 6 | |
| > 4 | 2:4:6 |
| >7 | |
| > end | |
| >5 | |
| >3 | |
| >7 | 0 |
| >1 | |
| > end | |
| >1 | |
| > 2 | 2 |
| > 3 | |
| > end | |



Q3: Implement it in Python.

| number="" text="" while text!="end": text=input() if text!="end" and (int(text))%2==0: number+=text+":" print(number[:-1]) |
|--|
| |

Q4: Is it possible to adapt your solution by using the repeat block? If so, do it.

- Input text in the console
- Print index of the LAST pattern "KK" (first K letter)
- If no "KK", write -1

Q1: What will be the result for these outputs?

| Input | Output |
|-----------|--------|
| DDKDDDKE | -1 |
| DDKKDDKKD | 6 |
| К | -1 |
| AAKAKK | 4 |
| XXKKXXKX | 2 |
| KKAAK | 0 |

Q2: What is wrong with this code?

```
text = input()
number =-1
for i in range(len(text)):
   if text[i] == "K" and text[i+1] == "K":
      number = i
   print(number)
```

Q3: To find the bug, test this code and check if the output is correct.

| INPUT | OUTPUT |
|--------|--------|
| KK | 0 |
| KKK | 1 |
| AAKKAK | 2 |

Q4: Write the correct code.

```
text = input()
number =-1
for i in range(len(text)-1):
  if text[i] == "K" and text[i+1]== "K":
    number=i
print(number)
```

- Enter 2 numbers using a string, as follows: "number1; number2".
- Number1 and number2 shall be composed of 2 digits (example "45")
- Between number1 and number2, the character ";" shall be entered.
- If format is good
 - O Display the sum of these 2 numbers.
 - o Otherwise display: "WRONG FORMAT"

Q1: What will be the result for these outputs?

| Input | Output | | |
|--|--------------|--|--|
| 12;13 | 25 | | |
| Ronan | WRONG FORMAT | | |
| 12;1 | WRONG FORMAT | | |
| 10;20 | | | |
| 12/14 | | | |
| 15;16;18 | | | |
| Q2: Do you need extra variables? | | | |
| Q3: What is the information we need to keep? | | | |
| | | | |
| Q4: Solve this problem and try your code with the previous inputs. | | | |
| | | | |