- 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 > 8	11
>5 >5	-1
> 10 > 8 > 0 > 5	-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:

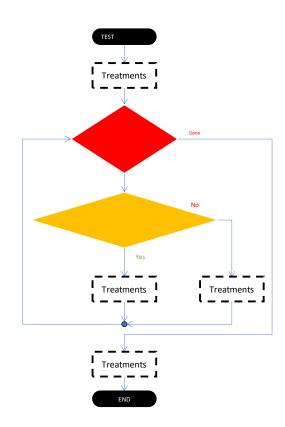
https://www.hackerrank.com/work/tests/1404754/questions

• 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

Q2: Fill up the gap of the following flowchart.



Q3: Implement it in Python.

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

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	2:6:4
>7	
> end	
>5	
> 3	
>7	
>1	
> end	
>1	
> 2	2
>3	2
> end	

Q2: Create a flowchart by using the condition (while) block.

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])
```

- 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	2
XXKKXXKX	2
KKAAK	0

Q2: What is wrong with this code?

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

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()

Result=-1

For i in range(len(text)):

Letter=text[i]

If letter=="K" and Text[i-1]=="K":

Result=i-1

Print(result)
```

- 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	Wrong format
12/14	26
15;16;18	Wrong format

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.

```
number = input("Put Your number...")
i = 0
sum = 0
sum1 = 0
number1 = ""
```

```
number2 = ""
isNumber = False
while i < len(number):
    if number[i] != ";" and not isNumber and number[i].isnumeric():
        number1 += number[i]
    elif number[i] == ";":
        isNumber = True
        sum1 += 1
    elif isNumber and number[i].isnumeric():
        number2 += number[i]
    i += 1
if sum1 > 0 and len(number1) == 2 and len(number2) == 2:
        sum = int(number1) + int(number2)
else:
        sum = "WRONG FORMAT"
print(sum)
```