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

1. What will be the **result** for these outputs?

|  |  |
| --- | --- |
| **Input** | **Output** |
| abbcdef | 0 |
| abcfabc | 2 |
| adabcfbc | 0 |

1. Choose the more relevant blocks and draw your structure flowchart.

START

Text=input()

Sum = 0

Done

Len(text)

Text[i]==”a”and text[i+1]==”b”and text[i+2] ==”c”

Sum + = 1

Text=input()

END

1. Adapt code from a previous session to solve this problem.

text=input()

sum=0

for i in range(len(text)):

if text[i]=="a"and text[i+1]=="b"and text[i+2]=="c":

sum+=1

print(sum)

* Input a text in the console, only number.
* Multiple all the number before the first apparition of 6 and 1 if 6 is in the first position.

1. What will be the **result** for these outputs?

|  |  |
| --- | --- |
| **Input** | **Output** |
| 123456789 | 120 |
| 5263 | 10 |
| 71256 | 70 |
| 45 | 0 |
| 625 | 1 |

1. Draw your structure flowchart.

START

Text=input()

i = 0

mult = 0

i < len(word) and int(word[i]) != 6

Else:

mult \*= int(word[i])

i +=1

i == len(word)

Mult=0

Print(mult)

end

1. Use the following code and adapt it so as not to use the repetitive (for) loop.

word = input()

i = 0

mult = 1

while i < len(word) and int(word[i]) != 6:

mult \*= int(word[i])

i += 1

print(mult)

word = input()

i = 0

mult = 1

while i < len(word) and int(word[i]) != 6:

mult \*= int(word[i])

i += 1

else:

if i == len(word):

mult = 0

print(mult)

* Input a number.
* Display numbers from 1to that number

|  |  |
| --- | --- |
| **Input** | **Output** |
| 4 | 1 2 3 4 |
| 2 | 1 2 |
| 5 | 12345 |
| 3 | 123 |
| 0 | 0 |

1. Create a flowchart to solve this problem. Which loop block will you choose and why?

START

number=input()

i =0

i < (number)

i += 1

Print(i ,end=)

END

1. Review the code and find **the error** and explain them.

number = int(input())

result = ""

for index in range(number):

result = result + " " + str(index + 1)

print(result)

1. Write your own good code to solve this problem. This time, you can’t use the **for condition**.

text = int(input())

i = 0

number = 0

while i < text:

number = number + 1

i = i + 1

print(number, end=" ")