

# Problem 2. Sum and maximum

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## Description

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Class Exercise 1

Write a program that reads an unknown number of integers from input until 0 is entered. Print the sum and the maximum of these integers.

## Input format

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Several lines, the  $i$ -th of which is an integer  $s_i$ . The last line is 0.

- For 100% cases,  $|s_i| \leq 100$ .
- All the integers before the last line are nonzero.

## Output format

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Two lines:

```
sum: xxx
maximum: yyy
```

where `xxx` and `yyy` are replaced with the sum and the maximum of the input integers. Note that the terminating 0 is not counted.

## Examples

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### Example 1

Input:

```
1
2
3
0
```

Output:

```
sum: 6
maximum: 3
```

### Example 2

Input:

```
-1
-2
-3
0
```

Output:

```
sum: -6  
maximum: -1
```

## Notes

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This problem should be solved without arrays or dynamic memory allocation. Keep your solution simple.