

QUIZ 2

COMP9021 PRINCIPLES OF PROGRAMMING

```
$ python3 quiz_2.py
```

```
Enter four positive integers: 0 10 20 5
```

```
Here is the list of generated values:
```

```
[6, 6, 0, 4, 8, 7, 6, 4, 7, 5]
```

```
Here is a reversed copy of the list (why not?):
```

```
[5, 7, 4, 6, 7, 8, 4, 0, 6, 6]
```

```
The minimal and maximal values are, respectively, 0 and 8.
```

```
The sum of all values is: 53
```

```
Starting from the middle of the list and wrapping around,  
the indexes are:
```

```
5, 6, 7, 8, 9, 0, 1, 2, 3, 4
```

```
In a copy of the list,
```

```
removing again and again the leftmost value
```

```
not strictly greater than its latest location (index):
```

```
[6, 6, 4, 8, 7, 6, 7]
```

```
In a copy of the list,
```

```
removing again and again the rightmost largest value
```

```
so the resulting list of values has a sum no greater than 20:
```

```
[6, 0, 4, 4, 5]
```

```
In a copy of the list,
```

```
starting from the leftmost occurrence of 5 and wrapping around,
```

```
collecting again and again the next larger value:
```

```
[5, 6, 8]
```

```
The original list has not been modified indeed:
```

```
[6, 6, 0, 4, 8, 7, 6, 4, 7, 5]
```

```
$ python3 quiz_2.py
```

```
Enter four positive integers: 20 12 17 1
```

```
Here is the list of generated values:
```

```
[11, 10, 2, 4, 10, 10, 1, 5, 9, 2, 0, 6]
```

```
Here is a reversed copy of the list (why not?):
```

```
[6, 0, 2, 9, 5, 1, 10, 10, 4, 2, 10, 11]
```

```
The minimal and maximal values are, respectively, 0 and 11.
```

```
The sum of all values is: 70
```

```
Starting from the middle of the list and wrapping around,  
the indexes are:
```

```
6, 7, 8, 9, 10, 11, 0, 1, 2, 3, 4, 5
```

```
In a copy of the list,
```

```
removing again and again the leftmost value
```

```
not strictly greater than its latest location (index):
```

```
[11, 10, 4, 10, 10, 9]
```

```
In a copy of the list,
```

```
removing again and again the rightmost largest value
```

```
so the resulting list of values has a sum no greater than 17:
```

```
[2, 4, 1, 5, 2, 0]
```

```
In a copy of the list,
```

```
starting from the leftmost occurrence of 1 and wrapping around,
```

```
collecting again and again the next larger value:
```

```
[1, 5, 9, 11]
```

```
The original list has not been modified indeed:
```

```
[11, 10, 2, 4, 10, 10, 1, 5, 9, 2, 0, 6]
```

```
$ python3 quiz_2.py
Enter four positive integers: 50 15 34 8
Here is the list of generated values:
    [7, 13, 4, 5, 10, 14, 3, 11, 7, 12, 5, 1, 8, 5, 3]
Here is a reversed copy of the list (why not?):
    [3, 5, 8, 1, 5, 12, 7, 11, 3, 14, 10, 5, 4, 13, 7]
The minimal and maximal values are, respectively, 1 and 14.
The sum of all values is: 108
Starting from the middle of the list and wrapping around,
the indexes are:
    7, 8, 9, 10, 11, 12, 13, 14, 0, 1, 2, 3, 4, 5, 6

In a copy of the list,
removing again and again the leftmost value
not strictly greater than its latest location (index):
    [7, 13, 4, 5, 10, 14, 11, 12]

In a copy of the list,
removing again and again the rightmost largest value
so the resulting list of values has a sum no greater than 34:
    [7, 4, 5, 3, 5, 1, 5, 3]

In a copy of the list,
starting from the leftmost occurrence of 8 and wrapping around,
collecting again and again the next larger value:
    [8, 13, 14]
The original list has not been modified indeed:
    [7, 13, 4, 5, 10, 14, 3, 11, 7, 12, 5, 1, 8, 5, 3]
```

```
$ python3 quiz_2.py
```

```
Enter four positive integers: 100 18 110 3
```

```
Here is the list of generated values:
```

```
[4, 14, 14, 5, 12, 11, 13, 16, 3, 17, 3, 2, 14, 8, 1, 6, 10, 7]
```

```
Here is a reversed copy of the list (why not?):
```

```
[7, 10, 6, 1, 8, 14, 2, 3, 17, 3, 16, 13, 11, 12, 5, 14, 14, 4]
```

```
The minimal and maximal values are, respectively, 1 and 17.
```

```
The sum of all values is: 160
```

```
Starting from the middle of the list and wrapping around,  
the indexes are:
```

```
9, 10, 11, 12, 13, 14, 15, 16, 17, 0, 1, 2, 3, 4, 5, 6, 7, 8
```

```
In a copy of the list,
```

```
removing again and again the leftmost value
```

```
not strictly greater than its latest location (index):
```

```
[4, 14, 14, 5, 12, 11, 13, 16, 17, 14]
```

```
In a copy of the list,
```

```
removing again and again the rightmost largest value
```

```
so the resulting list of values has a sum no greater than 110:
```

```
[4, 14, 5, 12, 11, 13, 3, 3, 2, 8, 1, 6, 10, 7]
```

```
In a copy of the list,
```

```
starting from the leftmost occurrence of 3 and wrapping around,
```

```
collecting again and again the next larger value:
```

```
[3, 17]
```

```
The original list has not been modified indeed:
```

```
[4, 14, 14, 5, 12, 11, 13, 16, 3, 17, 3, 2, 14, 8, 1, 6, 10, 7]
```