Coding Quiz 5

COMP9021 PRINCIPLES OF PROGRAMMING Term 3, 2021

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$ python3 quiz_5.py
Enter two integers, the second one being strictly positive: 0 1
Here is the grid that has been generated:
    0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0
    0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0
    0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0
    0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0
    0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0
    0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0
    0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0
    0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0
    0\ 0\ 0\ 0\ 0\ 0\ 0\ 0\ 0
    0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0
There is no parallelogram with horizontal sides.
$ python3 quiz 5.py
Enter two integers, the second one being strictly positive: 02
Here is the grid that has been generated:
    1 1 0 1 1 1 1 1 1 0
    0\ 1\ 0\ 0\ 1\ 0\ 1\ 0\ 1
    1 0 1 1 1 0 1 1 1 0
    0 0 1 0 1 1 0 1 0 0
    0 0 0 1 0 0 1 1 0 1
    1 0 1 0 1 1 0 1 1 0
    1 0 0 0 0 1 1 0 0 0
    0\ 0\ 0\ 1\ 1\ 0\ 0\ 1\ 1\ 1
    1 1 0 1 0 1 1 0 0 0
    1 0 0 1 0 1 1 0 0 0
The largest parallelogram with horizontal sides has a size of 4.
$ python3 quiz 5.py
Enter two integers, the second one being strictly positive: 03
Here is the grid that has been generated:
    1 1 0 1 1 1 1 1 1 1
    1 0 1 0 1 0 0 1 1 1
    1 1 0 1 0 1 0 1 1 1
    1 0 1 1 1 1 1 0 1 1
    1 1 1 0 1 0 0 1 1 1
    1 1 0 1 1 1 0 1 1 1
    0\ 0\ 1\ 0\ 0\ 0\ 1\ 1\ 0\ 0
    1 1 1 0 1 1 1 1 0 1
    1 1 0 1 1 1 1 1 0 1
    1 1 1 0 1 0 0 0 0 1
The largest parallelogram with horizontal sides has a size of 12.
```

\$ python3 quiz_5.py

Enter two integers, the second one being strictly positive: 0 4 Here is the grid that has been generated:

The largest parallelogram with horizontal sides has a size of 12.

\$ python3 quiz_5.py

Enter two integers, the second one being strictly positive: 14 Here is the grid that has been generated:

The largest parallelogram with horizontal sides has a size of 16.

\$ python3 quiz_5.py

Enter two integers, the second one being strictly positive: 0 5 Here is the grid that has been generated:

The largest parallelogram with horizontal sides has a size of 15.