QUIZ 6

```
$ python3 quiz_6.py
Enter three nonnegative integers: 0 1 3
Here is the grid that has been generated:
    1 1 0
    1 1 1
    1 1 1


For triangles pointing N, we have:
     2 triangles of size 2

For triangles pointing E, we have:
     2 triangles of size 2

For triangles pointing S, we have:
     1 triangle of size 2

For triangles pointing W, we have:
     1 triangle of size 2
$ python3 quiz_6.py
Enter three nonnegative integers: 0 1 4
Here is the grid that has been generated:
    1 1 0 1
    1 1 1 1
    1 0 0 1
    0 0 1 0


For triangles pointing N, we have:
     1 triangle of size 2

For triangles pointing E, we have:
     1 triangle of size 2

For triangles pointing W, we have:
     1 triangle of size 2
```

Date: Trimester 1, 2021.

```
$ python3 quiz_6.py
Enter three nonnegative integers: 0 2 10
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 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 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

For triangles pointing N, we have:
    12 triangles of size 2

For triangles pointing E, we have:
    11 triangles of size 2

For triangles pointing S, we have:
    12 triangles of size 2

For triangles pointing W, we have:
    1 triangle of size 3
    11 triangles of size 2
$ python3 quiz_6.py
Enter three nonnegative integers: 0 10 6
Here is the grid that has been generated:
    1 1 0 1 1 1
    1 1 1 1 1 1
    1 1 1 1 1 1
    1 1 1 1 1 1
    1 1 1 1 1 1
    1 1 1 1 1 1

For triangles pointing N, we have:
    7 triangles of size 3
    12 triangles of size 2

For triangles pointing E, we have:
    7 triangles of size 3
    12 triangles of size 2

For triangles pointing S, we have:
    6 triangles of size 3
    11 triangles of size 2

For triangles pointing W, we have:
    7 triangles of size 3
    12 triangles of size 2
```

```
$ python3 quiz_6.py
Enter three nonnegative integers: 0 8 11
Here is the grid that has been generated:
    1 1 0 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1
    1 1 0 1 0 1 1 0 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1
    0 1 1 1 1 1 1 0 1 1 1 1
    1 1 1 1 1 1 1 1 1 1 1 1
    1 1 1 1 1 1 0 1 1 1 1 1
    1 1 1 0 1 1 1 0 1 1 0

For triangles pointing N, we have:
    5 triangles of size 4
    20 triangles of size 3
    38 triangles of size 2

For triangles pointing E, we have:
    5 triangles of size 4
    22 triangles of size 3
    38 triangles of size 2

For triangles pointing S, we have:
    3 triangles of size 5
    7 triangles of size 4
    20 triangles of size 3
    36 triangles of size 2

For triangles pointing W, we have:
    1 triangle of size 5
    8 triangles of size 4
    19 triangles of size 3
    39 triangles of size 2
```