AIN SHAMS UNIVERSITY
FACULTY OF ENGINEERING

Program of Mechatronics

Computer programming

Given a **random** 2D matrix with a size of 1000X1000, the task is to find maximum sum of a hour glass.

```
An hour glass is made of 7 cells
in following form.
   A B C
     D
   E F G
```

Examples:

```
Input : 1 1 1 0 0
        0 1 0 0 0
        1 1 3 0 0
        0 0 0 2 0
        0 0 0 0 4
Output : 9
Below is the hour glass with
maximum sum:
3 0 0
  2
0 0 4
```

Note: any copied answers will be canceled.