

# ICPC Assiut University Community

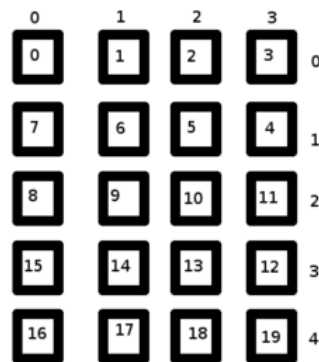
## Newcomers Training ,Do Your Best


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### E. Hady Rides the Train

time limit per test: 0.5 seconds  
 memory limit per test: 256 megabytes  
 input: standard input  
 output: standard output

Hady wants to ride a train. He knows his seat number, but he doesn't know the corresponding row or column number of his seat. However, he knows that each row consists of exactly 4 seats. The train seats are numbered from zero as shown in the figure:



Given the seat number, can you find the corresponding row and column numbers of the seat?

#### Input

Only one line containing  $id$  ( $0 \leq id \leq 10^{18}$ ) – the seat number.

#### Output

The row and column numbers of the seat.

#### Examples

<b>input</b>	<a href="#">Copy</a>
5	
<b>output</b>	<a href="#">Copy</a>
1 2	
<b>input</b>	<a href="#">Copy</a>
2	
<b>output</b>	<a href="#">Copy</a>
0 2	
<b>input</b>	<a href="#">Copy</a>
0	
<b>output</b>	<a href="#">Copy</a>
0 0	
<b>input</b>	<a href="#">Copy</a>
13	
<b>output</b>	<a href="#">Copy</a>
3 2	

#### Assiut University Training - Newcomers

**Public**

Participant



#### → About Group


[Group website](#)

#### → Group Contests

- Sheet #10 (General Hard)
- Sheet #9 (General medium)
- Sheet #8 (General easy)
- Sheet #7 (Recursion)
- Sheet #6 (Math - Geometry)
- Sheet #5 (Functions)
- Sheet #4 (Strings)
- Contest #3.1
- Sheet #3 (Arrays)
- Contest #2
- Sheet #2 (Loops)
- Contest #1
- Sheet #1 (Data type - Conditions)

#### Contest #2

**Finished**

Practice



#### → About Time Scaling

This contest uses time limits scaling policy (depending on a programming language).