

CJ1 | Captain's Orders

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Description

Wealth, fame, power... Gold Roger, the King of the Pirates, attained everything this world has to offer. The words he uttered just before his death drove people to the seas. *“My treasure? If you want it, you can have it! FIND IT! I left everything this world has to offer there!”*. And so men head for the Grand Line in pursuit of their dreams! The world has truly entered a Great Pirate Era.

Captain CJ, aspiring to find the great treasure, the One Piece, has arrived in the Grand Line, a treacherous ocean full of mysteries. Along with his trusty crewmates, you are their programmer who had eaten the Code Code Fruit (it gives you the ability to program inside your head).

The first captain's orders you were given is to create a program to navigate the ship the way CJ wants. Given the level of danger in each of the four cardinal directions, determine where the ship has to go (prioritize the most dangerous direction since that is what CJ wants). CJ also wants to know the strength of the wind from that direction. Strength of wind is the sum of danger level from the directions you are going to divided by the sum of danger level from all directions.

Input Format

Input is **d**, a number which consists of 4 digits where each digit represents the danger from that direction. The given cardinal directions starts with north, east, south, and west.

Output Format

- First line, print Captain CJ, we must go towards {{direction 1}}{{direction 2}} where {{direction 1}} can be north or south while {{direction 2}} can be east or west
- Second line, print The strength of wind is only {strength of wind} captain! with a precision to two decimal places

Constraints

$1 \leq \text{each digit of } d \leq 9$

Each digit of d is guaranteed to be unique

Example 1

Input
2753
Output
Captain CJ, we must go towards southeast The strength of wind is only 0.71 captain!
Explanation
South is more dangerous than north and west is safer than east. The sum of danger is 12 and the sum of all direction is 17 which when divided results in 0.71

Example 1

Input
1329
Output
Captain CJ, we must go towards southwest The strength of wind is only 0.73 captain!
Explanation
South is more dangerous than north and east is safer than west. The sum of danger is 11 and the sum of all direction is 15 which when divided results in 0.73