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HELP

Lang



ABOUT

Solution

COMMUNITY **PRACTICE** COMPETE DISCUSS

Home » Compete » January Challenge 2015 » Ranka



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## Read problems statements in Mandarin Chinese and Russian.

There is an ancient legend in China called Ranka

(Content taken from wikipedia)

Wang Chih was a hardy young fellow who used to venture deep into the mountains to find suitable wood for his axe.

One day he went farther than usual and became lost. He wandered about for a while and eventually came upon two strange old men

who were playing Go, their board resting on a rock between them. Wang Chih was fascinated. He put down his axe and began to watch.

One of the players gave him something like a date to chew on, so that he felt neither hunger nor thirst. As he continued to watch he

fell into a trance for what seemed like an hour or two. When he awoke, however, the two old men were no longer there.

He found that his axe handle had rotted to dust and he had grown a long beard. When he returned to his native village he discovered

that his family had disappeared and that no one even remembered his name.

So how could that happen? Well, that's because the game "Go" can played very long.

Let's first define the game "Go":

In this game, we focus on the game played on a 9x9 board. It is a game played by 2 players.

A plays black stone while B plays white. They play alternatively. A goes first.

In each cell there can be 3 states: empty, having 1 black stone and having 1 white stone.

If we link the same color stones which are neighbourhood (|x1-x2| + |y1-y2| = 1), we can get some connected component.

We say a connected component is dead if no stone in it has an empty neighbourhood cell.

In each move, the player must put the stone on an empty cell or pass the turn. If this player put a stone, following situation will

- If after this move there is at least one connected component of opponent dead, then stones from these dead components
- will be removed. (In this case, after remove all dead components of your opponent, we can prove all your connected component are not dead.)
- Otherwise, if there are at least one connected component of yours dead, then this move is invalid.

In order to avoid infinite loops, there is a rule called "No same state". The state of board can be expressed as a string with length 82:

the first character indicate who is the next player, then 9\*9 character indicate the state of a certain cell. If after one move the game

goes into a state that previously occurred, then this move is invalid.

You are given an integer N. Please output a match that contains N valid moves for both player.

You can find details for the rules in the judge program

Only line of input will contain an integer denoting  ${\bf N}$ 

## Output

You must output N lines.

If the player uses "pass" at that step, then output "0 0", otherwise output the coordinate "x y" where 1 ≤ x,y ≤ 9.

#### Constraints and Subtasks

- Subtask1 (20 points) : N = 5000
- Subtask2 (80 points) : N = 10000

#### Example

Input:

# Output:

- 1 1 2 1
- 2 2 1 2
- 13 23

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SUCCESSFUL SUBMISSIONS

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#### CodeChef - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms, binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

#### Practice Section - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

#### **Compete** - Monthly Programming Contests and Cook-offs

Here is where you can show off your **computer programming** skills. Take part in our 10 day long monthly **coding contest** and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to Rs.20,000 and \$700lots more CodeChef goodies up for grabs.

#### Discuss

Are you new to **computer programming**? Do you need help with algorithms? Then be a part of CodeChef's Forums and interact with all our programmers - they love helping out other programmers and sharing their ideas. Have discussions around **binary search**, **array size**, **branch-and-bound**, **Dijkstra's algorithm**, **Encryption algorithm** and more by visiting the CodeChef Forums and Wiki section.

#### CodeChef Community

As part of our Educational initiative, we give institutes the opportunity to associate with CodeChef in the form of Campus Chapters. Hosting online programming competitions is not the only feature on CodeChef. You can also host a coding contest for your institute on CodeChef, organize an algorithm event and be a guest author on our blog.

#### Go For Gold

The Go for Gold Initiative was launched about a year after CodeChef was incepted, to help prepare Indian students for the **ACM ICPC** World Finals competition. In the run up to the **ACM ICPC** competition, the Go for Gold initiative uses CodeChef as a platform to train students for the **ACM ICPC** competition via multiple warm up contests. As an added incentive the Go for Gold initiative is also offering over Rs.8 lacs to the Indian team that beats the 29th position at the **ACM ICPC** world finals. Find out more about the Go for Gold and the **ACM ICPC** competition here.