PRACTICE ENVIRONMENTS FOR ICPC

Kyoto University Graduate School of Informatics Nishida Shohei

- 1. Introduction
- 2. Japanese activities
- 3. Recent status
- 4. Conclusion

1-0. Self Introduction

- Nishida Shohei
- Kyoto University
 - Graduate school of Informatics
- History:
 - 2007-2010 : Contestant (d3sxp)
 - 2011 : Coach (hkiikh,317)
 - 2011- : Japanese Alumni Group

1-1. Practice is very important!

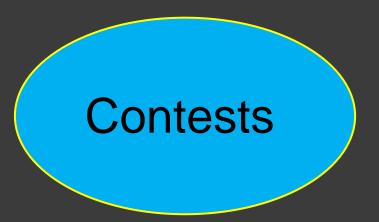
- A lot of practice environment!
 - Topcoder (United States)
 - Codeforces (Russia)
 - CodeChef (India)
 - PKU (China)
 - etc....
- Importance
 - Strong teams know a lot of environment
 - To know and join are very important!

1-2. Japanese activities for practice

- How is in Japan?
 - There are many activities too.
 - In this few years, more active!
 - Today's main topic!

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2. Three main activities in Japan!



Online Judge

Training Camp

ACM-ICPC Asia Fukuoka 2011 Coach Workshop

2-1. Online Judge

- Online Judge is past problem archive.
 - We can solve many problems
 - The system check where our solution is correct or not
- Online Judge is contest system.
 - This system works on the Web
 - Many contests are held on these systems
- In Japan
 - Three famous judges

2-1. Online judge

Aizu Online Judge

- Most active online judge in Japan.
- This is run by some staff and students in Aizu Univ
- There are many problems (700-800 problems)
- http://judge.u-aizu.ac.jp/onlinejudge/

Atcoder

- A little specialized for contest
- We can solve past problems.
- http://atcoder.jp/
- M-Judge

2-1 Online judge

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? For beginers

Pair of Primes





Time Limit: 1 sec, Memory Limit: 32768 KB

Pair of Primes

We arrange the numbers between 1 and N (1 <= N <= 10000) in increasing order and decreasing order like this:

```
123456789...N
N . . . 987654321
```

Two numbers faced each other form a pair. Your task is to compute the number of pairs P such that both numbers in the pairs are prime.

Input

Input contains several test cases. Each test case consists of an integer N in one line.

Output

For each line of input, output P.

Sample Input

2-2. Contests

- Student-hosted contest
 - Aizu, Kyoto, Saitama, Tokyo, Ritsumeikan
 - Some individuals host
 - The contests are held in online judge
 - There are onsite contests
- Company-hosted contest
- Problem difficulty
 - Most of these contests are as same as Asia Regional contest

2-2 Contests

KUPC 2011

≡コンテストトップ 49順位表

解答	#	問題名	time limit	memory limit	
	Δ	KUPC	1 sec	64 MB	提出する
	В	蝉	1 sec	64 MB	提出する
	<u>c</u>	しりとり	1 sec	64 MB	提出する
	D	列の構成	1 sec	64 MB	提出する
	E	<u>Fox Number</u>	1 sec	64 MB	提出する
	E	ボ~ル	1 sec	64 MB	提出する
	<u>G</u>	XOR 回路	5 sec	64 MB	提出する
	H	<u>あばれうなぎ</u>	1 sec	64 MB	提出する
	Ī	Ш	2 sec	64 MB	提出する
	<u>J</u>	Mod 3 Knights Out	1 sec	64 MB	提出する

2-3. Training Camp

- 3 4 days
- Solve many problems
 - Participants make problems, gather it and hold contests
- Make friends
 - sharing their knowledge
- Organizer
 - Japanese Alumni Group
 - Aizu and Ritsumeikan Univ New!!

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3.1 We are getting more active!

- Japanese problem setting skill is UP
 - Number of problem setter
- Some contest systems are activated
 - How to set the contest
- We can share the information about contests easily
 - On onsite, On twitter, etc...

3.2 Current Status

- Japanese contestants become strong
 - They learn more about algorithm
 - They write more programs
 - They solve more difficult problems
- They are expecting more events!

Activities make them strong!

3.3 Let's hold a event!

- Please support these events
 - These events are held by students themselves
 - They want to hold ONSITE contest
 - more enjoyable
 - more interactive
 - But ... students have some difficulties
 - place, money, etc...

Let's support these events!

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4. Conclusion

There are many events in Japan.

- Don't hesitate to join these activities.
 - Everyone is welcome!
- Let's hold the practice events!
 - We can support the contestants
 - We can enjoy with them

Thank you!