

PRACTICE ENVIRONMENTS FOR ICPC

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Agenda

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!

Contests

Online Judge

Training
Camp

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

HOME - Volume10 - 1004

 For beginners

Pair of Primes



Time Limit : 1 sec, Memory Limit : 32768 KB

Pair of Primes

We arrange the numbers between 1 and N ($1 \leq N \leq 10000$) in increasing order and decreasing order like this:

```
1 2 3 4 5 6 7 8 9 . . . N
N . . . 9 8 7 6 5 4 3 2 1
```

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  順位表

解答	#	問題名	time limit	memory limit	
	A	KUPC	1 sec	64 MB	提出する
	B	蟬	1 sec	64 MB	提出する
	C	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	Fox Number	1 sec	64 MB	提出する
	E	ポ〜ル	1 sec	64 MB	提出する
	G	XOR 回路	5 sec	64 MB	提出する
	H	あばれうなぎ	1 sec	64 MB	提出する
	I	山	2 sec	64 MB	提出する
	J	Mod 3 Knights Out	1 sec	64 MB	提出する

2-3. Training Camp

- ③ 3 - 4 days
- ③ Solve many problems
 - Participants make problems, gather it and hold contests
- ③ Make friends
 - sharing their knowledge
- ③ 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!