**PROBLEMS**

1. **Super Ten.**
2. **Game Time.**
3. **Chinese Angel**

**SUPER TEN:**

Question:

It is 22nd Century. Preparations for world war 3 were going on. Two master minds of a well reputed company VERSUS named Tarun and Sunny are on company’s new product launch in front of the media. The product is about a new nuclear weapon which can destroy a state in seconds. But environmentalists Raji and Venkat are going to oppose them. So, they started a live debate on Channel 10. All the 4 being from the same college of IIT Mumbai they all know their pros and cons. To test them their IIT professor is on the debate and want to test their creative thinking. He has given them a task and one who solves it must be the looser. The Channel 10 ratings were so super that it has broken all the previous records. The task is:

**Task**

A number is given, and an algorithm is applied, and an output is obtained. Their task to crack the algorithm and obtain the output of the next number professor asks.

If the number is 23 answer is 4 1

If the number is 32 answer is 1 5

**Note:** It is hundred times simpler than you thought.

**Input Format:** a single whole number n

**Constraints:** whole number is less than 100000

**Output Format:** space separated whole numbers.

**Sample Test Cases:**

**Input 1:**

23

**Output:**

4 1

**Input 1:**

32

**Output:**

1 5

**Game Time**

The game PUBG has been the talk of the town from the day it has been released. But Indian government has started to observe the side effects of the game and hence started an investigation on this game. They have selected 29 players from each state and kept on observation. The first step is to know how much time duration of at least one player is playing the game. So, they have asked the help of the CODE3000 CEOs Tarun and Sunny to help them. The CEO’s being smart kept the same question as a challenge in one of their contests. Try and be the member of the ANTIPUBG team by being top in this challenge.

**Challenge:**

Number of players will be given, and the start and end time of the games played will be there in hour, minute and second format. Time duration at least one player being played should be obtained in the same format.

**Note**: All the game duration will be within one day i.e., 00:00:00 to 23:59:59.

**Input format:**

First line will be an integer n.

Next n lines will be time lapse in HH:MM:SS 24 hour format.

**Output format:**

Time Duration in HH:MM:SS 24 hour format

**Sample Testcase:**

**Input 1:**

4

00:10:30 01:10:30

01:00:00 04:10:30

03:30:00 04:10:30

04:00:00 06:00:00

**Output:**

05:49:30

**Input 2:**

3

10:00:00 23:00:00

01:00:00 22:00:00

23:00:00 23:45:00

**Output:** 22:45:00

**CHINESE ANGEL**

Akshi is the younger sister of Ricky. Both are mobile phone lovers. One day, they came across a new mobile in the market and thought of buying it. They went to their father Tarun and asked him to buy. He says, whoever solves the problem will be gifted the phone they wish. There by he gives a series as follows

0,8,7,6,5,4,12,11,10,……….

and asks to find the nth term. Tarun gives a hint to his children that once upon a time when he went to China, he came across a Chinese girl who looked like an angel.

**Input Format:**

Whole Number n

**Output Format:**

Whole number

**Sample Testcase:**

**Input 1:**

6

**Output:**

12

**Input 2:**

16

**Output:**

11

Hello,

We welcome you to the event of the semester “CODE3000”. It is our **third** challenge in this contest.It is the coding event launched by pragati to know the best of the best coders of pragati. It is a 4-hour challenge which will be held today between 8 pm to 12pm.

It is best to login to the link below, 20 min before. Make sure you have active internet connection before starting the test.

The hackerrank link is: [www.hackerrank.com/code3000](https://www.hackerrank.com/code3000)

Post this link in your class whatsapp group if already posted neglect it.

Think Hard, Code Smart.

Thank You.