



Seating Arrangement



BOOKMARK

Attempted by: 50280 / Accuracy: 52% / Maximum Points: 10 / ★★★★★ 2735 Votes / [Share](#)

Very-Easy

PROBLEM

EDITORIAL

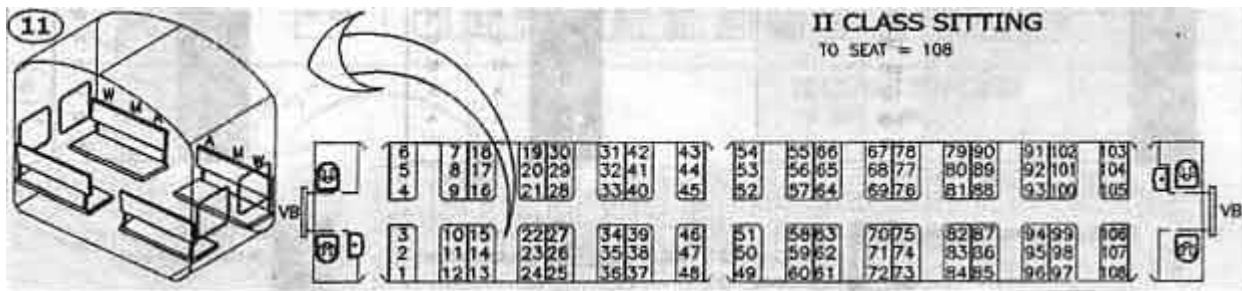
MY SUBMISSIONS

ANALYTICS

DISCUSSIONS

NEW

Akash and **Vishal** are quite fond of travelling. They mostly travel by railways. They were travelling in a train one day and they got interested in the seating arrangement of their compartment. The compartment looked something like



So they got interested to know the seat number facing them and the seat type facing them. The seats are denoted as follows :

- Window Seat : **WS**
- Middle Seat : **MS**
- Aisle Seat : **AS**

You will be given a seat number, find out the seat number facing you and the seat type, i.e. **WS**, **MS** or **AS**.

INPUT

First line of input will consist of a single integer **T** denoting number of test-cases. Each test-case consists of a single integer **N** denoting the seat-number.

OUTPUT

For each test case, print the facing seat-number and the seat-type, separated by a single space in a new line.

CONSTRAINTS

- $1 \leq T \leq 10^5$
- $1 \leq N \leq 10^8$



SAMPLE INPUT



2
18
40

SAMPLE OUTPUT



19 WS
45 AS

Time Limit: 1.0 sec(s) for each input file.

Memory Limit: 256 MB

Source Limit: 1024 KB

BEST SUBMISSION



SIMILAR PROBLEMS



CONTRIBUTORS



THIS PROBLEM WAS ASKED IN



Resources

Tech Recruitment
Blog

Product Guides

Developer hiring
guide

Engineering Blog

Developers Blog

Developers Wiki

Competitive
Programming

Solutions

Assess Developers

Conduct Remote
Interviews

Assess University
Talent

Organize Hackathons

CompanyService &
Support

About Us

Press

Careers

Technical
Support

Contact Us

+1-650-461-4192

contact@hackerearth.com



Start a Programming
Club

Practice Machine
Learning

Site Language: English ▼ | © 2020 HackerEarth All rights reserved | Terms of Service | Privacy Policy