Task #1

Yuka likes watching TV series in a random order. Right now she is ready to finish watching a season of a popular series. In total, the season has n episodes. She has already watched all episodes except for one. Write a program that prints the episode that Yuka hasn't watched. The program reads in the number of episodes n in the season, and episodes that she has watched.

For example, for the input below,

8

3 8 4 5 1 2 7

The output will be 6, the episode that she hasn't watched.

Requirements

1. Follow the format of the examples below.

Examples (your program must follow this format precisely)

Example #1

```
Enter number of episodes: 10

Enter episodes watched: 1 2 8 4 10 3 7 6 9

Missing episode: 5
```

Example #2

```
Enter number of episodes: 6

Enter episodes watched: 1 2 4 6 5

Missing episode: 3
```

Task #2

A high school debate and speech club coach needs to form teams for the upcoming competition. Students have different level of accumulated points from past debate and speech activities. For example, the club has 7 students, with points 41 13 76 87 160 67 134.

The coach would like to form teams of students based on points, at beginner (25 points), honor (70 points), and excellence (125 points) levels. Student 1 and 2 (with points 41 13) will be in the beginner team because their levels are equal or closer to 25 (than to 70 and 125), and student 3 4 6 (with points 76 87 and 67) will be in the honor team, and student 5 and 7 (with points 160 and 134) will be in the excellence team.

Write a program that assign students to teams based on their accumulated points.

Requirements

1. The program reads in the number of students, and their points.
2. Use an array to store points.
3. Use another array of the same size to store team assignment.
4. The program should include the following function:
   void assign(int points[], int team_assignment[], int n);
   The function calculates the team assignment and store the results in team_assignment array . Array points[] represents the points for each students. n is the total number of students.
5. Use library function abs is to return the absolute value of an integer. Include stdlib.h.
6. Follow the format in the examples.

Examples (your program must follow this format precisely)

Example #1

```
Enter number of students: 4

Enter points for each students: 72 25 128 65

Beginner team: student 2

Honor team: student 1 4

Excellence team: student 3
```

Example #2

```
Enter number of students: 7

Enter points for each students: 89 34 143 74 162 23 65

Beginner team: student 2 6

Honor team: student 1 4 7

Excellence team: student 3 5
```