Arrays Coding Questions

Q1.Youngest and Oldest

The Pan Am 73 flight from Bombay to New York en route Karachi and Frankfurt was hijacked by a few Palestinian terrorists at the Karachi International Airport. The senior flight purser Neerja Banhot had to wither her fear and start evacuating the passengers on board. She pleaded the hijackers to release the oldest and the youngest person in the aircraft. Heeding to her plea the chief of the hijacker agreed to let go the oldest and the youngest. Given the ages of the passengers find the oldest and the youngest.

Input Format

The first line of input consists of an integer n, corresponding to the number of passengers in the aircraft.

The next line consists of the age of passengers separated by a space.

Output Format

The output prints the youngest and oldest separated by a space.

Print Invalid Input if n or any one of the ages is negative.

Q2. Weighing machines in Sunrise Logistics is not working. Raju, the manager of the division wants to calculate the total weight of received goods. Weight is printed in the goods label. Write a suitable code to help Raju.

Input Format

Number of received goods in first line.

Weight of goods in Second line (Space separated).

Output Format

The output prints the total weight.

Q3. A common problem in statistics is that of generating frequency distribution of the given data. Assuming that the data consists of n

positive integers in the range 1 to 25, write a program that prints the number of times each integer occurs in the data.

Input Format

The first line of the input consists of the value of n.

The next n inputs are the array elements.

Output Format

The output prints the frequency of each data.

Q4. Given an array A consists of N number of elements.If the sum of the element is "even" print the sum of the element.If the sum of

the element is "odd" print the product of the element.

Input Format

The first line of input contains the number of elements N

The second line of input represents the elements A1

, A2

, A3

. . . . . AN

Output Format

Prints the desired result

Q5. Lucy at the Film Festival

LucarnosFilm Festival is an annual film festival and is also known for being a prestigious platform for art house films. This time at the Lucarnos Film festival there are N movies screened, each of different genre ranging from drama movies to comedy ones and teen movies to horror ones. Lucy is a huge fan of movies and visited the film festival, but she's not sure which movie she should watch.

Each movie can be characterized by two integers Li and Ri, denoting the length and the rating of the corresponding movie. Lucy wants to watch exactly one movie with the maximal value of Li × Ri. If there are several such movies, she would pick a one with the maximal Ri among them. If there is still a tie, she would pick the one with the minimal index among them. Write a program to help Lucy pick a movie to watch at the film festival.

Input Format

The first line of the input description contains an integer n. Assume that the maximum value for n as 50.

The second line of the input description contains n integers L1, L2, ...,Ln.

The following line contains n integers R1, R2, ...,Rn.

Output Format

Output a single integer i denoting the index of the movie that Lucy should watch in the film festival. Note that you follow 1-based indexing.