**Find pairs with given relation**

Submissions: [514](https://practice.geeksforgeeks.org/problem_submissions.php?pid=2144)  Accuracy:

24.96%

   Difficulty: [Easy](https://practice.geeksforgeeks.org/Easy/0/0/)   Marks: 2

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Given an array of distinct integers, write a program to find two pairs (a, b) and (c, d) such that ab = cd, where a, b, c and d are distinct elements.

**Input:**  
First line of input contains a single integer T which denotes the number of test cases. T test cases follows. First line of each test case contains a single integer N which denotes the number of elements in the array. Second line of each test case contains N space separated integers which denotes elements of the array.

**Output:**  
For each test case, print 1 if any such pair is found otherwise print -1.

**Constraints:**  
1<=T<=100  
1<=N<=10000

**Example:**  
**Input:**  
2  
7  
3 4 7 1 2 9 8  
6  
1 6 3 9 2 10  
**Output:**  
1  
1

\*\* For More Input/Output Examples Use ['Expected Output'](https://practice.geeksforgeeks.org/problems/find-pairs-with-given-relation/0#ExpectOP) option \*\*

Contributor: Harsh Agarwal  
[Author: harsh.agarwal0](https://auth.geeksforgeeks.org/user/harsh.agarwal0/practice/)

<https://practice.geeksforgeeks.org/problems/find-pairs-with-given-relation/0>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp4

{

public class GFG

{

static int HayPares(int[] arr)

{

Dictionary<int, int> dic = new Dictionary<int, int>();

for (int i = 0; i < arr.Length - 1; i++)

{

for (int j = i + 1; j < arr.Length; j++)

{

if (dic.ContainsKey(arr[i] \* arr[j]))

{

//dic[arr[i] \* arr[j]]++;

return 1;

}

else

{

dic[arr[i] \* arr[j]] = 1;

}

}

}

return 0;

}

static void Main(string[] args)

{

int t = int.Parse(Console.ReadLine());

while (t-- > 0)

{

int n = int.Parse(Console.ReadLine());

int[] arr = Array.ConvertAll(Console.ReadLine().Trim().Split(' '), e => int.Parse(e));

Console.WriteLine(HayPares(arr));

}

Console.ReadLine();

}

}

}