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| **Maximum Average Sub-Array**    Problem code: IITK1P05 | * [SUBMIT](https://www.codechef.com/submit/IITK1P05) * [MY SUBMISSIONS](https://www.codechef.com/status/IITK1P05,nacho0monllor) * [ALL SUBMISSIONS](https://www.codechef.com/status/IITK1P05) |

**All submissions for this problem are available.**

You are given a sequence of N integers, a[1], a[2], , , , a[N].   
Find out the maximum possible average value of sub-sequences of array a.

**Input**

First line of the input contains a single integer T denoting number of test cases

For each test case, first line contains a single integer denoting N, the number of elements of array a.   
Next line contains N space separated integers denoting the array a.

**Output**

Print T lines each line containing the maximum possible average value. Your answer will be considered correct if it's absolute or relative error is less than 10 -6.

**Constraints**

* 1 ≤ T ≤ 10
* 2 ≤ N ≤ 1000
* 1 ≤ A[i] ≤ 10^5

**Example**

**Input:**

1

5

1 3 2 1 3

**Output:**

3

**Explanation**

**Example case 1.** Average value of subsequence 3, 3 is 3. This is the maximum possible average value.

<https://www.codechef.com/problems/IITK1P05>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static void Main(string[] args)

{

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

while (t-- > 0)

{

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

string[] elems = Console.ReadLine().Split(' ');

int[] arr = Array.ConvertAll(elems, e => int.Parse(e));

Console.WriteLine(arr.Max());

}

Console.ReadLine();

}

}

}