Ron Weasley has been given an assignment by Professor Snape.

**ASSIGNMENT:**

Take N distinct numbers, store it in an 0-indexed list and find the value of this expression:

Formula

i = position of 1st element

j = position of last element

n = index of the last element

and **f (a, b) = 2a - b**

Ron is a very lazy fellow and hates Professor Snape. He has requested you to solve the question for him.

After a few days, Professor Snaps adds a small detail to this question. He says that range of k is from 0 to (n/2), if n is even. The range of k is from 0 to lower bound of (n/2), if n is odd.

First line contains T test cases

For each test case:

a. First line contains the value of N (the number of elements)

b. Second line contains N distinct elements separated by space

**Constrains:**

1 <= T <= 100

0 <= N <= 10000

0 <= value of each element <= 10000

**Output the answer to the expression.**

**Sample Input**

[(Plaintext Link)](https://he-s3.s3.amazonaws.com/media/hackathon/cmjrwp/problems/the-easy-formula-1/4ea4a578-e-sample-input-4ea460f.txt?Signature=sPVXecVDTQqZsfxKvoIdaLti2K8%3D&Expires=1430221658&AWSAccessKeyId=AKIAJLE6MUHDYS3HN6YQ)

2

4

1 2 3 4

5

9 8 7 3 5

**Sample Output**

[(Plaintext Link)](https://he-s3.s3.amazonaws.com/media/hackathon/cmjrwp/problems/the-easy-formula-1/51132668-e-sample-output-5112e2d.txt?Signature=TXSeRbLrm4pCblrXF5ZtVdz33Mw%3D&Expires=1430221659&AWSAccessKeyId=AKIAJLE6MUHDYS3HN6YQ)

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