**Rearrange Array Alternately**

[array](http://www.practice.geeksforgeeks.org/tag-page.php?tag=array&isCmp=0)[sorting](http://www.practice.geeksforgeeks.org/tag-page.php?tag=sorting&isCmp=0)[Zoho](http://www.practice.geeksforgeeks.org/tag-page.php?tag=Zoho&isCmp=1)

Given a sorted array, rearrange  the array alternately i.e first element should be max value, second min value, third second max, fourth second min and so on. Eg: arr[] = {1, 2, 3, 4, 5, 6, 7} O/P: {7, 1, 6, 2, 5, 3, 4}

**Input:**  
First line of input ia the number of test cases T. First line of test case contain the array size 'N' and second line of test case contain the array.

**Output:**  
Numbers in the required form are displayed to the user.

**Constraints:**  
1 <=T<= 30  
1 <=N<= 100  
1 <=arr[i]<= 1000

**Example:**

**Input:**  
2  
6  
1 2 3 4 5 6  
11   
10 20 30 40 50 60 70 80 90 100 110

**Output:**  
6 1 5 2 4 3  
110 10 100 20 90 30 80 40 70 50 60

\*\*For More Examples Use Expected Output\*\*

<http://www.practice.geeksforgeeks.org/problem-page.php?pid=408>

#include <iostream>

#include <stdio.h>

#include <math.h>

#include <vector>

using namespace std;

int main() {

    int T;

    scanf("%d", &T);

    while(T--) {

       int N;

       scanf("%d", &N);

       int arr[N];

       for(int i =0; i<N; i++) {

          scanf("%d", &arr[i]);

       }

       int i = 0, j = N- 1;

        while (i < j){

            printf("%d %d ", arr[j], arr[i]);

            i++;

            j--;

        }

        if (N % 2 != 0) {

             printf("%d", arr[i]);

        }

       printf("**\n**");

    }

  system("pause");

 return 0;

}