

Array_Level2_008

Given an array of distinct elements, rearrange the elements of array in zig-zag fashion in $O(n)$ time. The converted array should be in form $a < b > c < d > e < f$.

Input Format

Input contains the no of elements & array values

Constraints

$1 \leq \text{array_size} \leq 10000$

Output Format

print the altered array

Sample Input 0

```
7
4 3 7 8 6 2 1
```

Sample Output 0

```
3 7 4 8 2 6 1
```