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import java.util.Scanner;

public class RearrangeArrayElements {


  public void inputAcceptor() {
   Scanner in = new Scanner(System.in);
   System.out.println("Enter the size of array: ");
   int size = in.nextInt();
   if(inputArraySizeValidator(size))
   {
    int[] input = new int[size];
    System.out.print("Enter the elements of the array: ");
       for (int i = 0; i < size; i++) {
        input[i] = in.nextInt();
        }
   if(inputArrayValidator(input)) {
    int[] result = computeRearrangedArray(input);
          displayResult(result);
   }
   else {
    System.out.println("Enter elements in sorting order");
   }
   }
   else {
    System.out.println("Give array size atleast one");
   }

  }

  public boolean inputArraySizeValidator(int size) {
   return size>0;
  }

  public boolean inputArrayValidator(int[] input) {
        for(int i=1;i<input.length;i++) {
         if(input[i]<input[i-1]) {
          return false;
         }
        }
        return true;
  }

  public int[] computeRearrangedArray(int[] inputArray) {
   int[] result = new int[inputArray.length];
         int left = 0;
         int right = inputArray.length - 1;
         boolean maxTurn = true;

         for (int i = 0; i < inputArray.length; i++) {
             if (maxTurn) {
                 result[i] =inputArray[right--];
             } else {
                 result[i] =inputArray[left++];
             }
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            maxTurn = !maxTurn;
        }

        return result;
    }

    public void displayResult(int[] outputArray) {
     if (outputArray == null) {
            System.out.println("Give proper input");
        } else {
            for (int element :outputArray) {
                System.out.print(element + " ");
            }
            System.out.println();
        }
    }
    public static void main(String[] args) {
     RearrangeArrayElements obj = new RearrangeArrayElements();
     obj.inputAcceptor();
    }
}
```