11. wave array:

```
#include <stdio.h>
int main() {
  int n;
  printf("Enter the number of elements: ");
  scanf("%d", &n);
  int arr[n];
  printf("Enter %d integers:\n", n);
  for (int i = 0; i < n; i++) {
     scanf("%d", &arr[i]);
  }
  for (int i = 0; i < n - 1; i++) {
    for (int j = 0; j < n - i - 1; j++) {
       if (arr[j] > arr[j + 1]) {
          int temp = arr[j];
         arr[j] = arr[j + 1];
         arr[j + 1] = temp;
       }
     }
  }
  for (int i = 0; i < n - 1; i += 2) {
    int temp = arr[i];
    arr[i] = arr[i + 1];
    arr[i + 1] = temp;
  }
  for (int i = 0; i < n; i++) {
     printf("%d ", arr[i]);
```

```
}
printf("\n");
return 0;
}
```