

```
//Wave Array
#include <stdio.h>

int main() {
    int arr[] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12};
    int n = sizeof(arr)/sizeof(arr[0]);
    int i, temp;

    for(i=0; i<n-1; i++)
    {
        if( (i%2==0 && arr[i]>arr[i+1]) || (i%2==1 && arr[i]<arr[i+1]) )
        {
            temp = arr[i];
            arr[i] = arr[i+1];
            arr[i+1] = temp;
        }
    }
    printf("Sorted array in wave form: ");
    for (i=0; i<n; i++) {
        printf("%d ", arr[i]);
    }
    return 0;
}
```