

```
#include<stdio.h>

int main(){
    int n, arr[20], i, j, k, spaceCounter, max = -1;
    scanf("%d", &n);

    // Find out how high is the highest bar
    // This decides the number of lines in the output
    for(i = 0; i < n; i++){
        scanf("%d", &arr[i]);
        if(arr[i] > max)
            max = arr[i];
    }

    // Print those many lines
    for(i = 0; i < max; i++){
        // Between two high bars, there may be lots of spaces
        // But we need to print those spaces only if there is
        // another high bar after the blank spaces
        spaceCounter = 0;
        for(j = 0; j < n; j++){
            // Is the current bar high enough?
            if(arr[j] >= max - i){
                for(k = 0; k < spaceCounter; k++)
                    printf(" ");
                printf("0");
                spaceCounter = 1;
            }
            // Just record two spaces - one for the missing 0
            // and the other for the space between two bars
            else
                spaceCounter += 2;
        }
        // No trailing new lines
        if(i < max - 1) printf("\n");
    }
}
```