```
5 - size of array
arr - list of H's that makes up the array
Goal: output # 's in order with a space-separation on one line
    for (int i = 1; i & A. length; i++)
        int value = A[i]
        int j = i-1
while (j > 0 && A[j] > value)
         A[j+1] = A[j]
         ا م ال م ال الم الم
         A[j+1] = value;
 i= 1 i 6 i++
    V = A[1] = 4
    j = i-1 = 1-1 = 0 doesn't enter while loop
    A[j+1] = value => A[1] = value => 42 value next for top
                                                  iteration observates
      743562
```