There are lots of algorithms doing this, I will just use selection sort in this homework, since it is easy to write O(∩\_∩)O

Suppose the original array arr1 is a:7,b:3,c:5,d:6,e:1

And the blank array arr2: f,g,h,i,j

Step 1:

Choose the smallest number in arr1:

We got e:1.

Move it a little left from the arr1

It becomes:

A

B

C

D

E

Step 2:

copy e:1 to f

The arr2 becomes:

F:1

G

H

I

J

Step 3:

Choose the smallest number in the rest arr1:

We got b:3.

Move it a little left from the arr1

It becomes:

A

B

C

D

E

Step 4:

copy b:3 to g

The arr2 becomes:

F:1

G:3

H

I

J

Step 5:

Choose the smallest number in the rest arr1:

We got c:5.

Move it a little left from the arr1

It becomes:

A

B

C

D

E

Step 6:

copy c:5 to h

The arr2 becomes:

F:1

G:3

H:5

I

J

Step 7:

Choose the smallest number in the rest arr1:

We got d:6.

Move it a little left from the arr1

It becomes:

A

B

C

D

E

Step 8:

copy d:6 to i

The arr2 becomes:

F:1

G:3

H:5

I:6

J

Step 9:

Copy a:7 to j

The arr2 becomes:

F:1

G:3

H:5

I:6

J:7

Step 9:

Move a back to other original cards

It becomes:

A

B

C

D

E