



# SELECTION SORT

39	9	81	45	90	27	72	18
----	---	----	----	----	----	----	----

# SELECTION SORT

PASS - 1

39	9	81	45	90	27	72	18
----	---	----	----	----	----	----	----



MIN

# SELECTION SORT

PASS - 1

39	9	81	45	90	27	72	18
----	---	----	----	----	----	----	----



MIN

# SELECTION SORT

PASS - 1

39	9	81	45	90	27	72	18
----	---	----	----	----	----	----	----

9	39
---	----

# SELECTION SORT

PASS - 1

9	39	81	45	90	27	72	18
---	----	----	----	----	----	----	----

# SELECTION SORT

PASS - 1

9	39	81	45	90	27	72	18
---	----	----	----	----	----	----	----

# SELECTION SORT

PASS - 2

9	39	81	45	90	27	72	18
---	----	----	----	----	----	----	----



MIN

# SELECTION SORT

PASS - 2

9	39	81	45	90	27	72	18
---	----	----	----	----	----	----	----



MIN

# SELECTION SORT

PASS - 2

9	39	81	45	90	27	72	18
---	----	----	----	----	----	----	----

18

39

# SELECTION SORT

PASS - 2

9	18	81	45	90	27	72	39
---	----	----	----	----	----	----	----

# SELECTION SORT

PASS - 2

9	18	81	45	90	27	72	39
---	----	----	----	----	----	----	----

# SELECTION SORT

PASS - 3

9	18	81	45	90	27	72	39
---	----	----	----	----	----	----	----



MIN

# SELECTION SORT

PASS - 3

9	18	81	45	90	27	72	39
---	----	----	----	----	----	----	----



MIN

# SELECTION SORT

PASS - 3

9	18	81	45	90	27	72	39
---	----	----	----	----	----	----	----

27

81

# SELECTION SORT

PASS - 3

9	18	27	45	90	81	72	39
---	----	----	----	----	----	----	----

# SELECTION SORT

PASS - 3

9	18	27	45	90	81	72	39
---	----	----	----	----	----	----	----

# SELECTION SORT

PASS - 4

9	18	27	45	90	81	72	39
---	----	----	----	----	----	----	----



MIN

# SELECTION SORT

PASS - 4

9	18	27	45	90	81	72	39
---	----	----	----	----	----	----	----



MIN

# SELECTION SORT

PASS - 4

9	18	27	45	90	81	72	39
---	----	----	----	----	----	----	----

39

45

# SELECTION SORT

PASS - 4

9	18	27	39	90	81	72	45
---	----	----	----	----	----	----	----

# SELECTION SORT

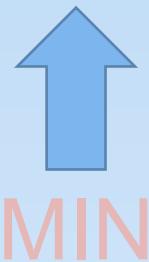
PASS - 4

9	18	27	39	90	81	72	45
---	----	----	----	----	----	----	----

# SELECTION SORT

PASS - 5

9	18	27	39	90	81	72	45
---	----	----	----	----	----	----	----



MIN

# SELECTION SORT

PASS - 5

9	18	27	39	90	81	72	45
---	----	----	----	----	----	----	----



MIN

# SELECTION SORT

PASS - 5

9	18	27	39	90	81	72	45
---	----	----	----	----	----	----	----

45

90

# SELECTION SORT

PASS - 5

9	18	27	39	45	81	72	90
---	----	----	----	----	----	----	----

# SELECTION SORT

PASS - 5

9	18	27	39	45	81	72	90
---	----	----	----	----	----	----	----

# SELECTION SORT

PASS - 6

9	18	27	39	45	81	72	90
---	----	----	----	----	----	----	----

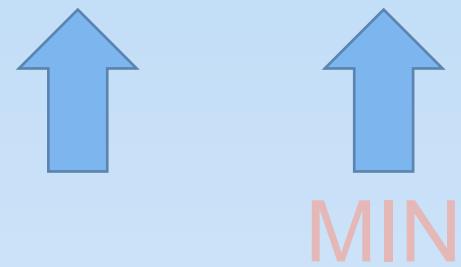


MIN

# SELECTION SORT

PASS - 6

9	18	27	39	45	81	72	90
---	----	----	----	----	----	----	----



# SELECTION SORT

PASS - 6

9	18	27	39	45	81	72	90
---	----	----	----	----	----	----	----

72	81
----	----

# SELECTION SORT

PASS - 6

9	18	27	39	45	72	81	90
---	----	----	----	----	----	----	----

# SELECTION SORT

PASS - 6

9	18	27	39	45	72	81	90
---	----	----	----	----	----	----	----

# SELECTION SORT

PASS - 7

9	18	27	39	45	72	81	90
---	----	----	----	----	----	----	----



MIN

# SELECTION SORT

PASS - 7

9	18	27	39	45	72	81	90
---	----	----	----	----	----	----	----

# SELECTION SORT

PASS - 7

9	18	27	39	45	72	81	90
---	----	----	----	----	----	----	----



# SELECTION SORT

9	18	27	39	45	72	81	90
---	----	----	----	----	----	----	----

```
#include<stdio.h>
int smallest(int arr[],int k,int n);
void selection_sort(int arr[],int n);
int main()
{
    int arr[10],i,n;
    printf("\nEnter the size of array:");
    scanf("%d",&n);
    printf("\nEnter the elements:\n");
    for(i=0;i<n;i++)
        scanf("%d",&arr[i]);
    selection_sort(arr,n);
    printf("\nAfter sorting:\n");
    for(i=0;i<n;i++)
        printf("%d\t",a[i]);
    return 0;
}
```

```
int smallest(int arr[],int k,int n)
{
    int pos=k,small=arr[k],i;
    for(i=k+1;i<n;i++)
    {
        if(arr[i]<small)
        {
            small=arr[k];
            pos=i;
        }
    }
    return pos;
}
void selection_sort(int arr[],int n)
{
    int k,pos,temp;
    for(k=0;k<n;k++)
    {
        pos=smallest(arr,k,n);
        temp=arr[k];
        arr[k]=arr[pos];
        arr[pos]=temp;
    }
}
```