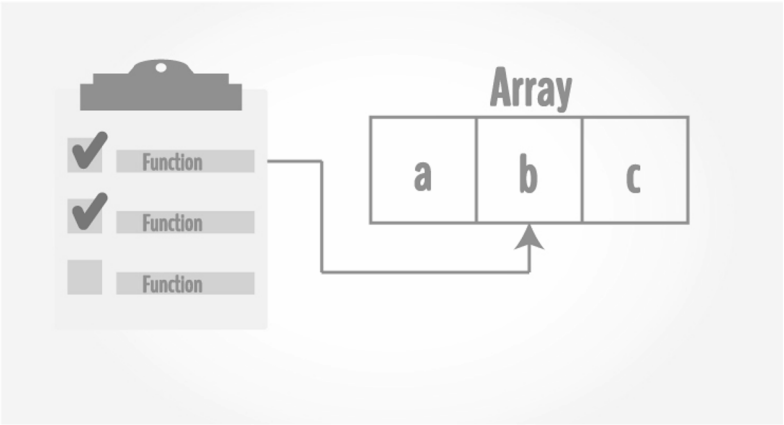
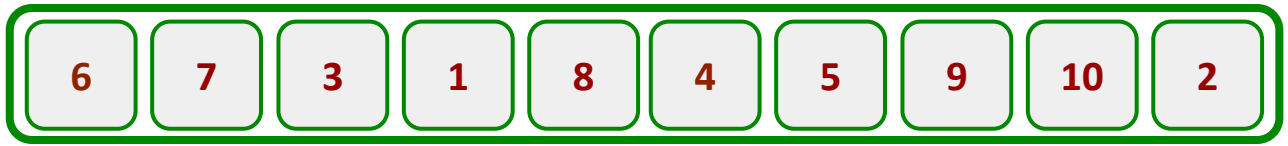
Diziler



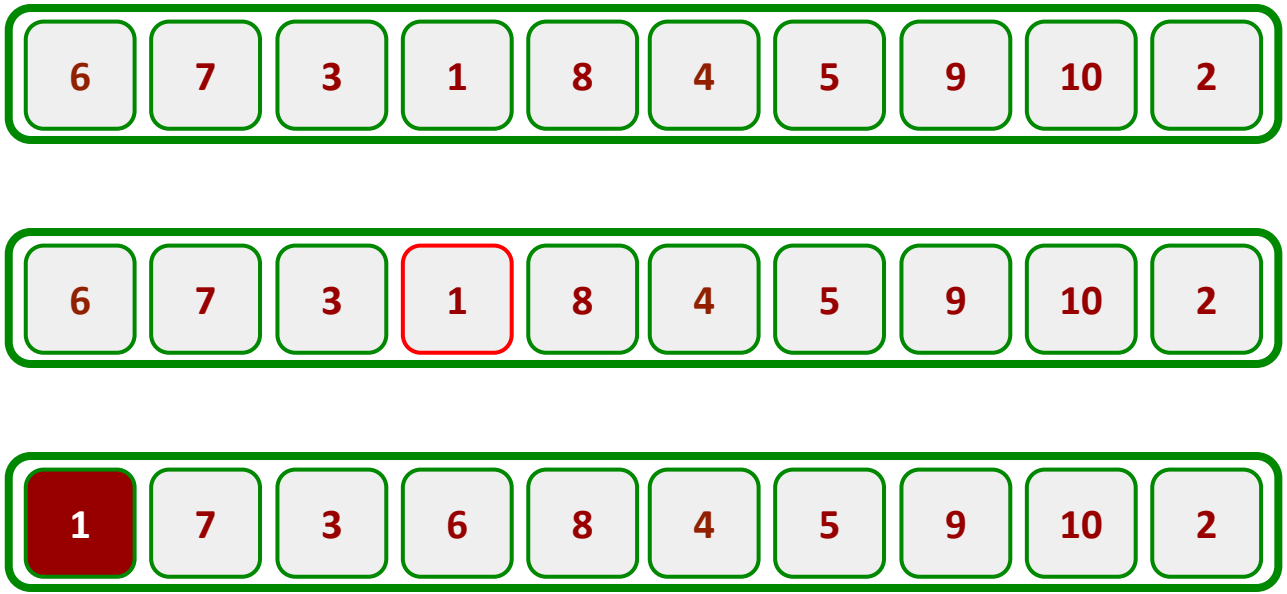
Suhap SAHIN
Onur GÖK
Fidan Kaya Gülağız

Selection Sort

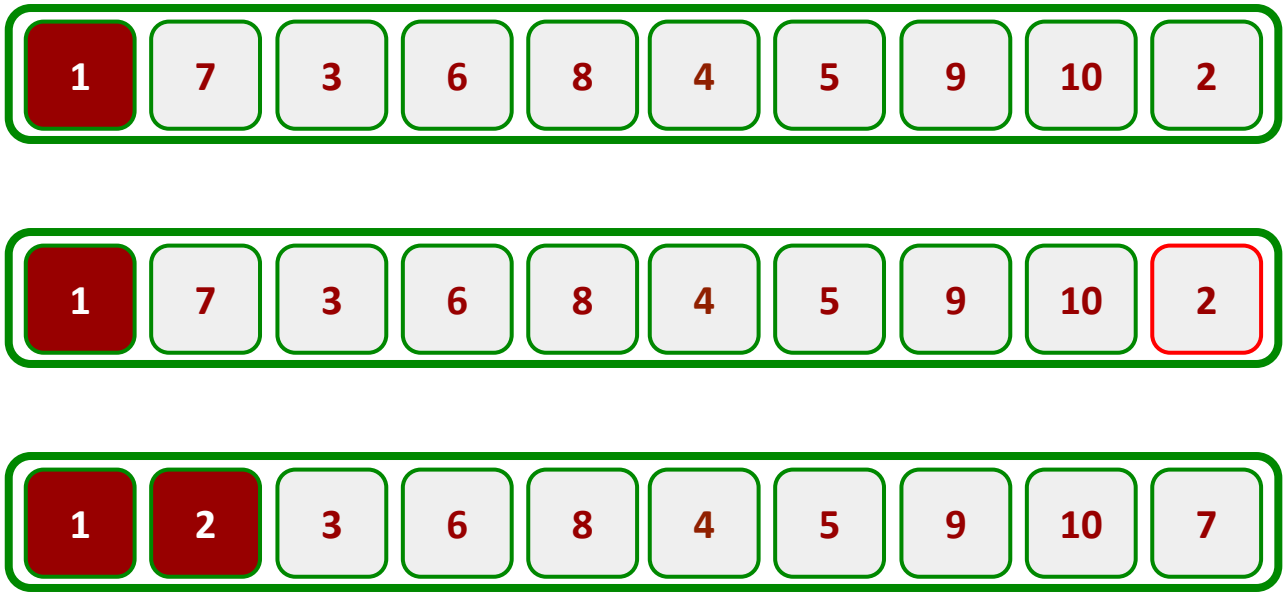
Alt listenin sıralanması



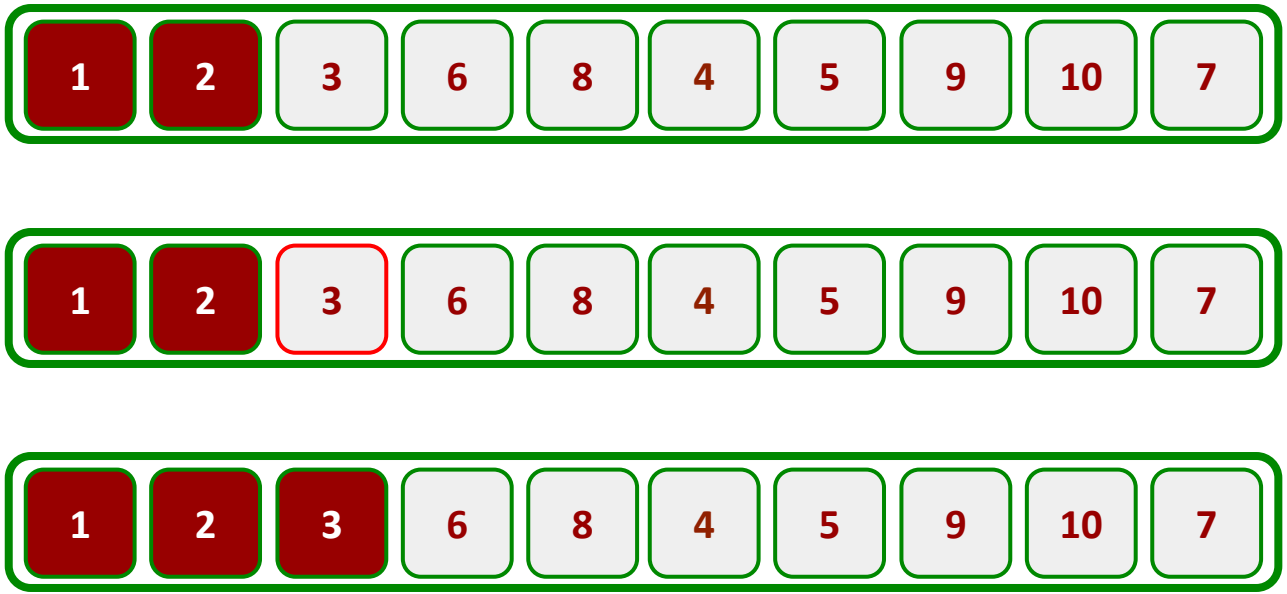
Selection Sort



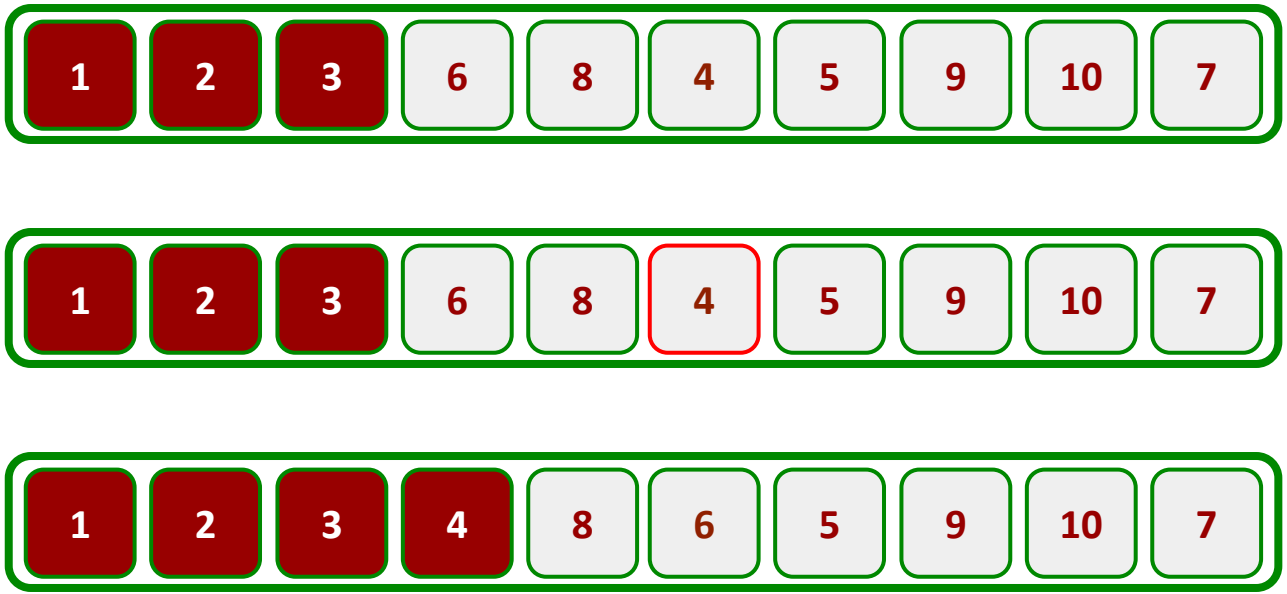
Selection Sort



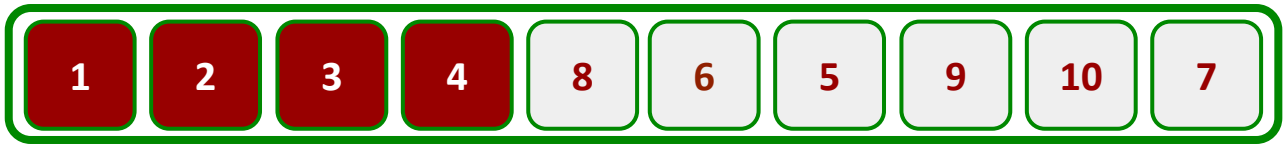
Selection Sort

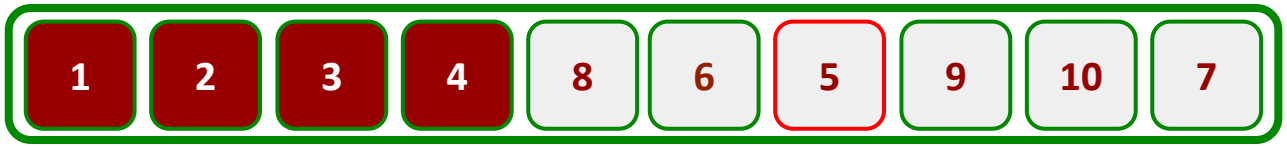


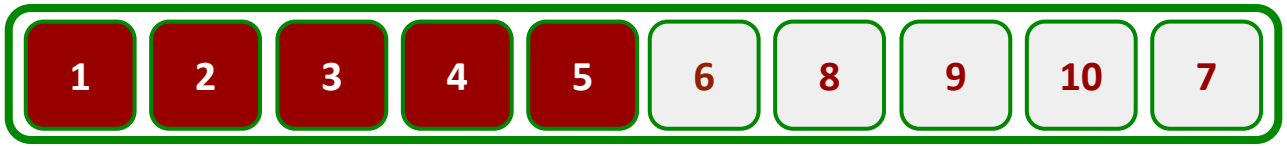
Selection Sort



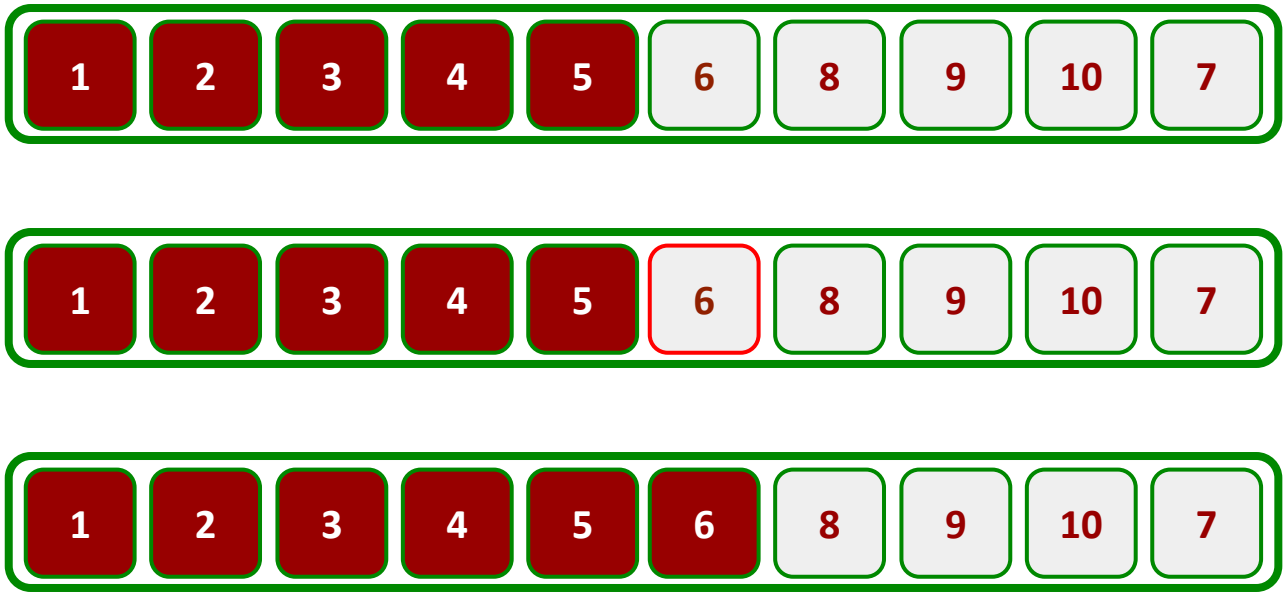
Selection Sort



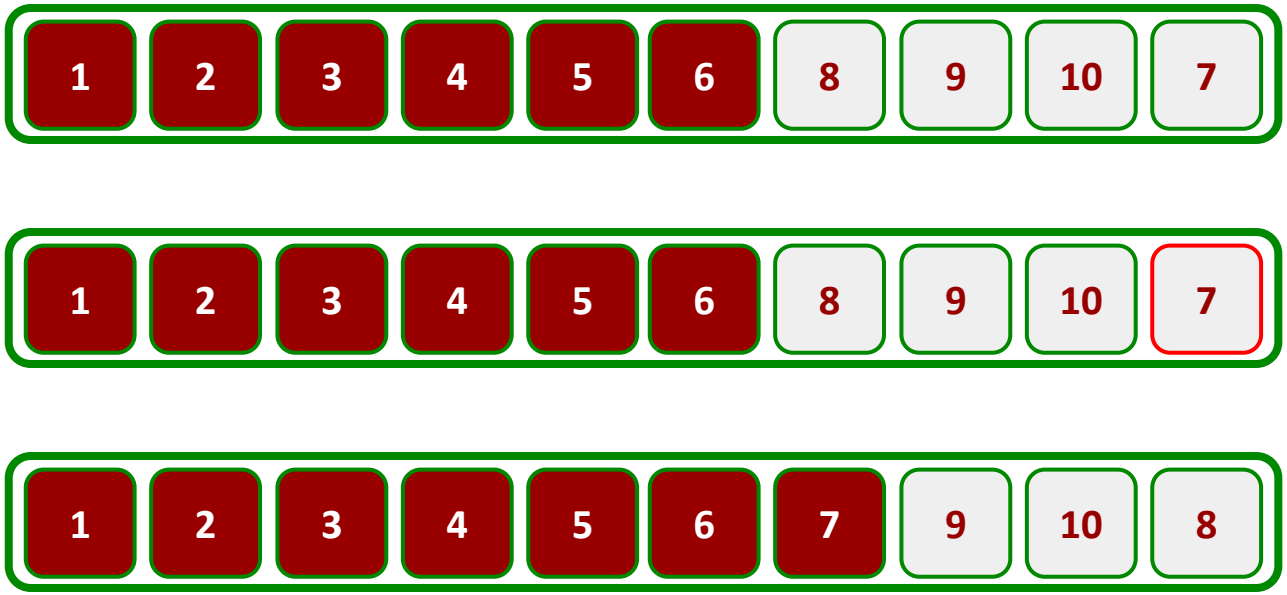




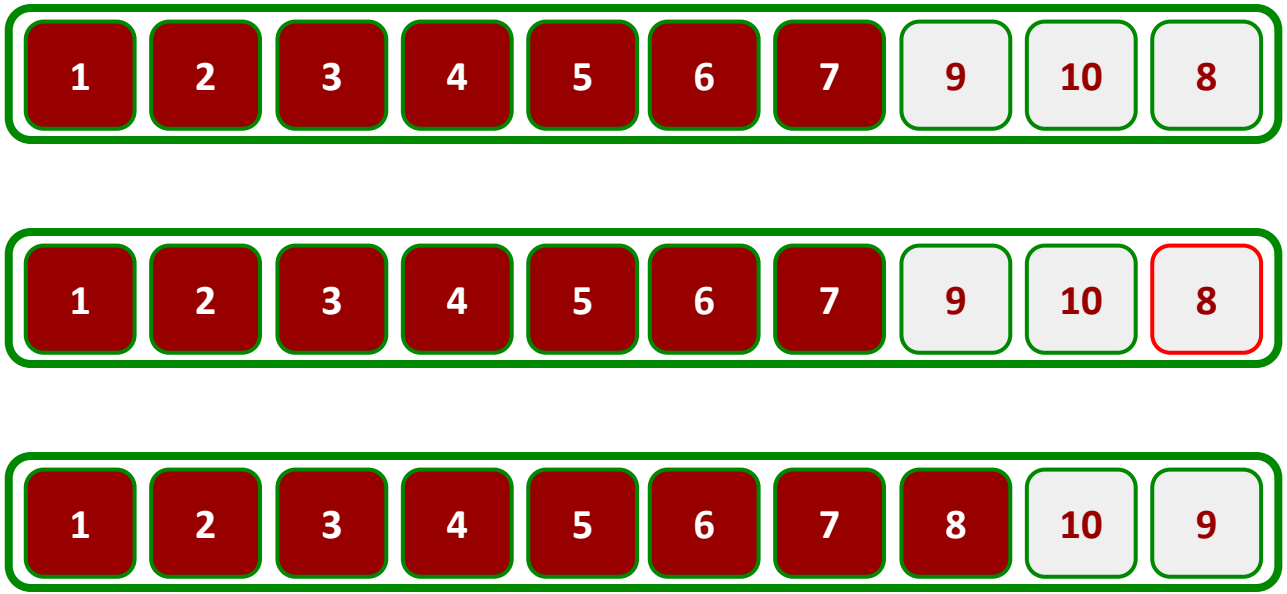
Selection Sort



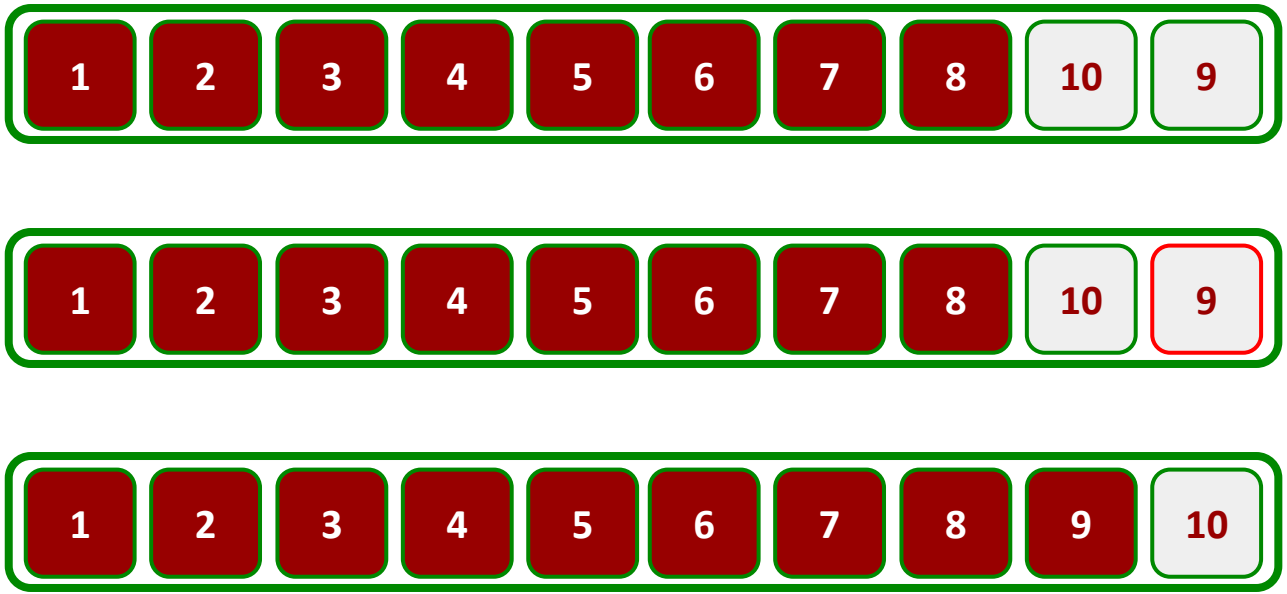
Selection Sort



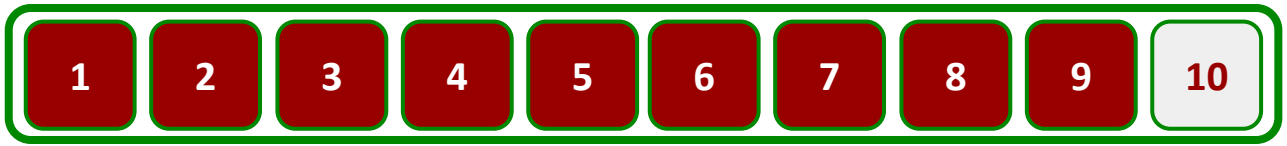
Selection Sort

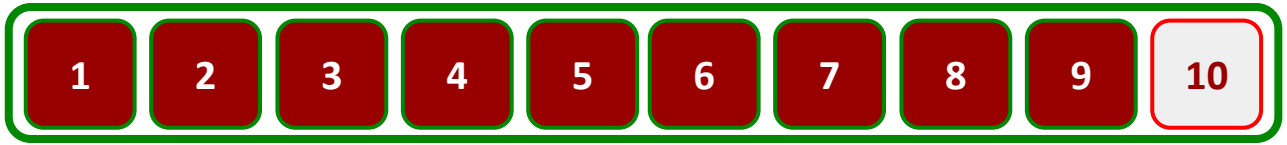


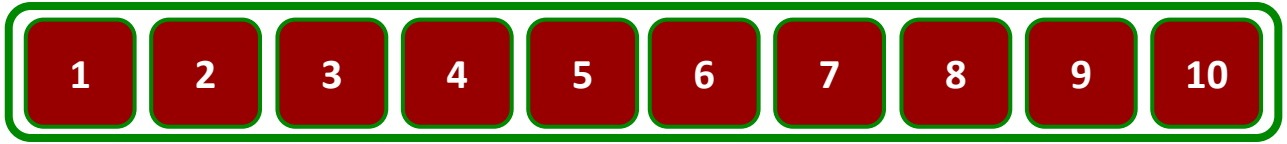
Selection Sort



Selection Sort







Selection Sort

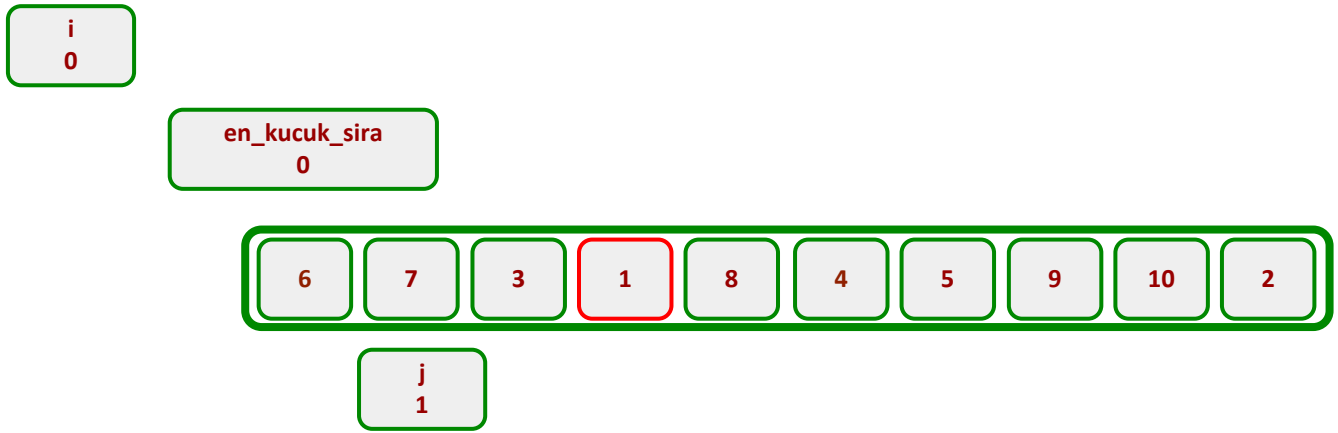
```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");









    return 0;
}
```

Selection Sort

```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;









    }
    return 0;
}
```

Selection Sort

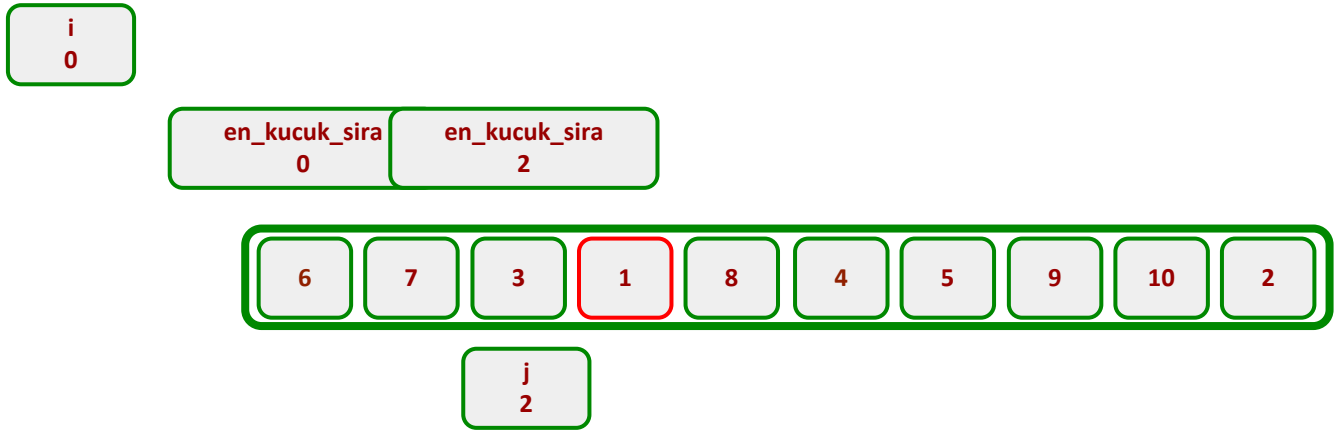
```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;
        for (j = i+1 ; j <= 9 ; j++)
            if (d[j] < d[en_kucuk_sira])
                en_kucuk_sira = j;









    }
    return 0;
}
```



d[j] < d[en_kucuk_sira] (7 < 6)
en_kucuk_sira = j;

Selection Sort

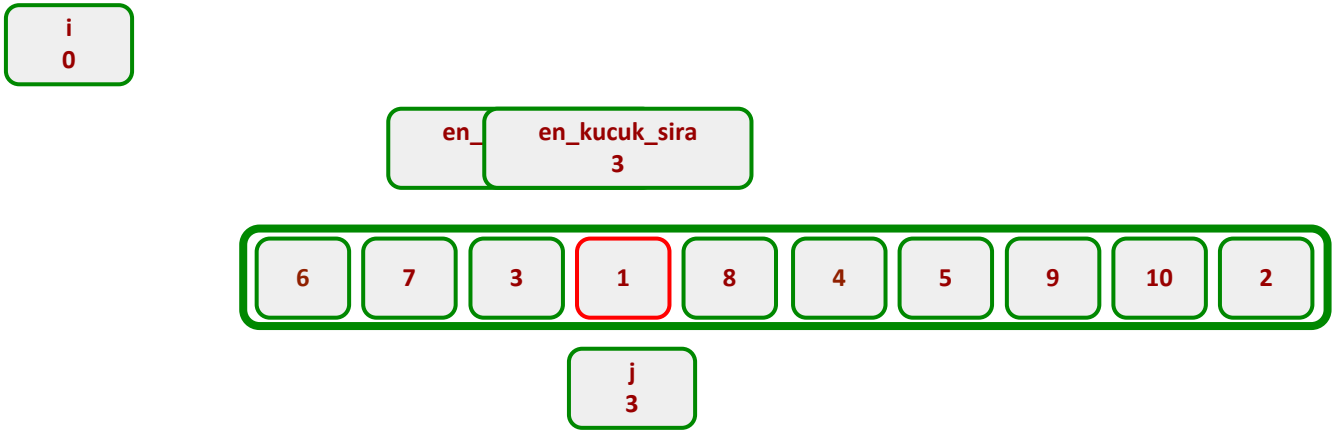
```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;
        for (j = i+1 ; j <= 9 ; j++)
            if (d[j] < d[en_kucuk_sira])
                en_kucuk_sira = j;









    }
    return 0;
}
```



d[j] < d[en_kucuk_sira] (3 < 6)
en_kucuk_sira = j;

Selection Sort

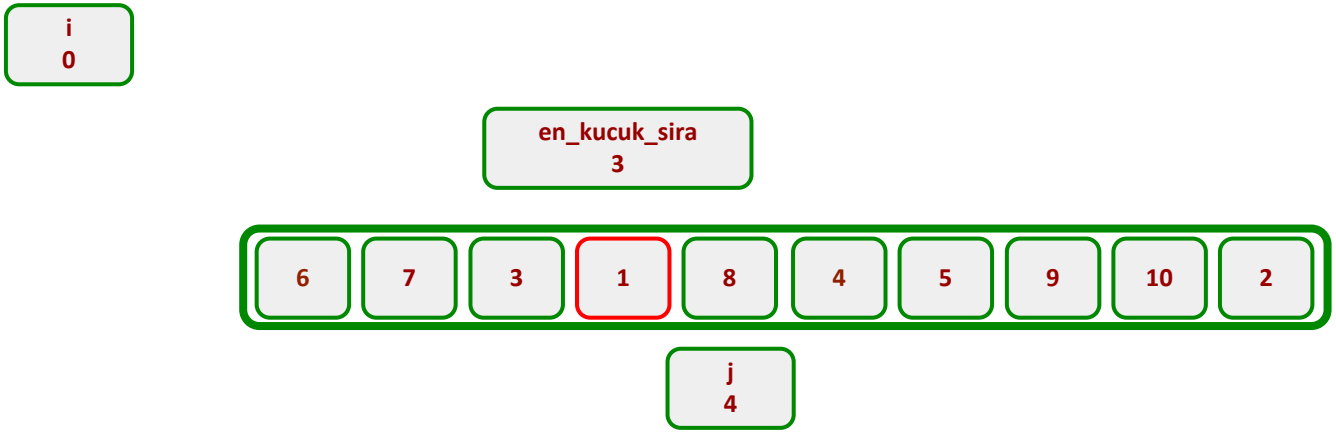
```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;
        for (j = i+1 ; j <= 9 ; j++)
            if (d[j] < d[en_kucuk_sira])
                en_kucuk_sira = j;

    }
    return 0;
}
```



d[j] < d[en_kucuk_sira] (1 < 3)
en_kucuk_sira = j;

Selection Sort

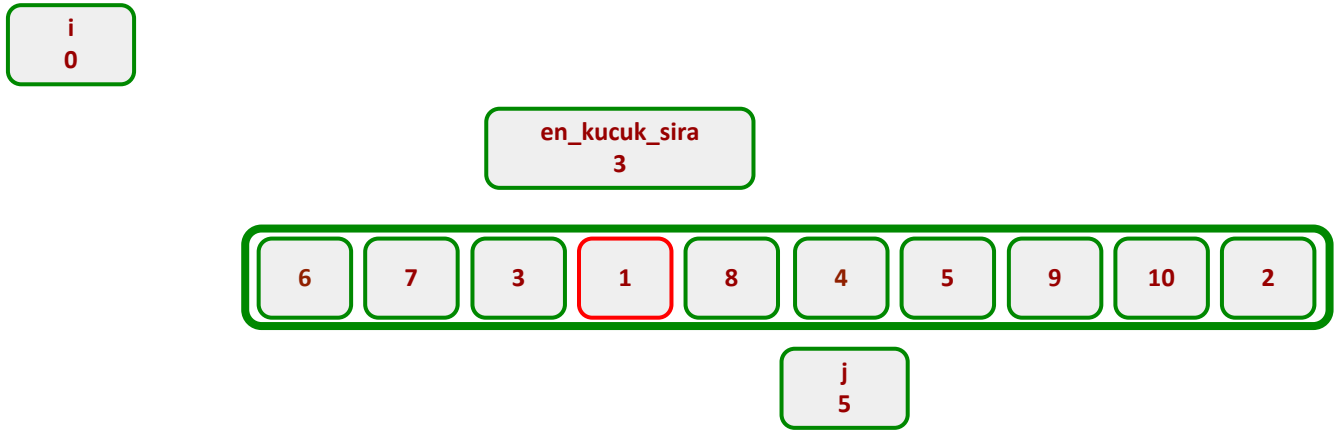
```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;
        for (j = i+1 ; j <= 9 ; j++)
            if (d[j] < d[en_kucuk_sira])
                en_kucuk_sira = j;









    }
    return 0;
}
```



d[j] < d[en_kucuk_sira] (8 < 1)
en_kucuk_sira = j;

Selection Sort

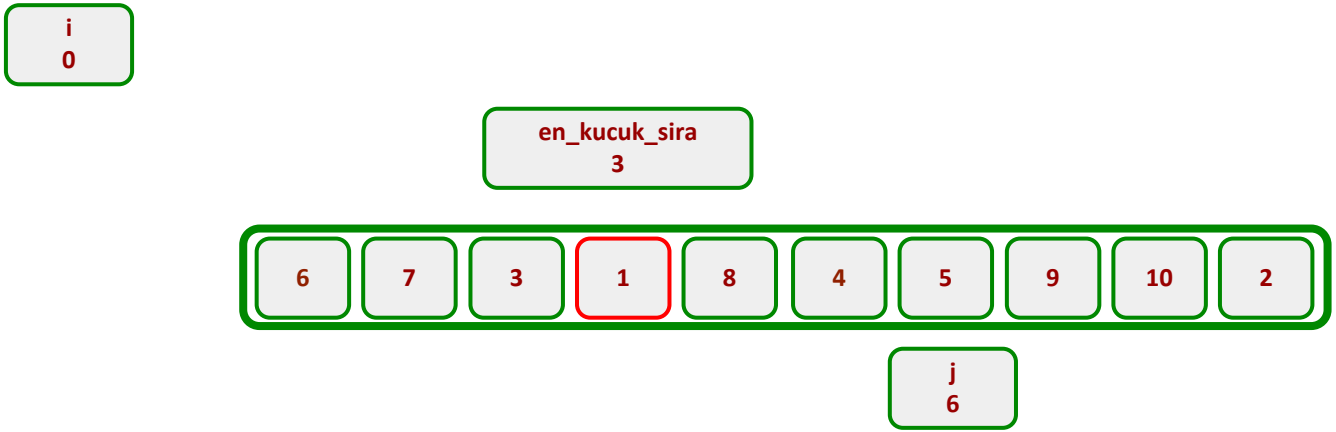
```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;
        for (j = i+1 ; j <= 9 ; j++)
            if (d[j] < d[en_kucuk_sira])
                en_kucuk_sira = j;









    }
    return 0;
}
```



d[j] < d[en_kucuk_sira] (4 < 1)
en_kucuk_sira = j;

Selection Sort

```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;
        for (j = i+1 ; j <= 9 ; j++)
            if (d[j] < d[en_kucuk_sira])
                en_kucuk_sira = j;









    }
    return 0;
}
```



d[j] < d[en_kucuk_sira] (5 < 1)
en_kucuk_sira = j;

Selection Sort

```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;
        for (j = i+1 ; j <= 9 ; j++)
            if (d[j] < d[en_kucuk_sira])
                en_kucuk_sira = j;









    }
    return 0;
}
```

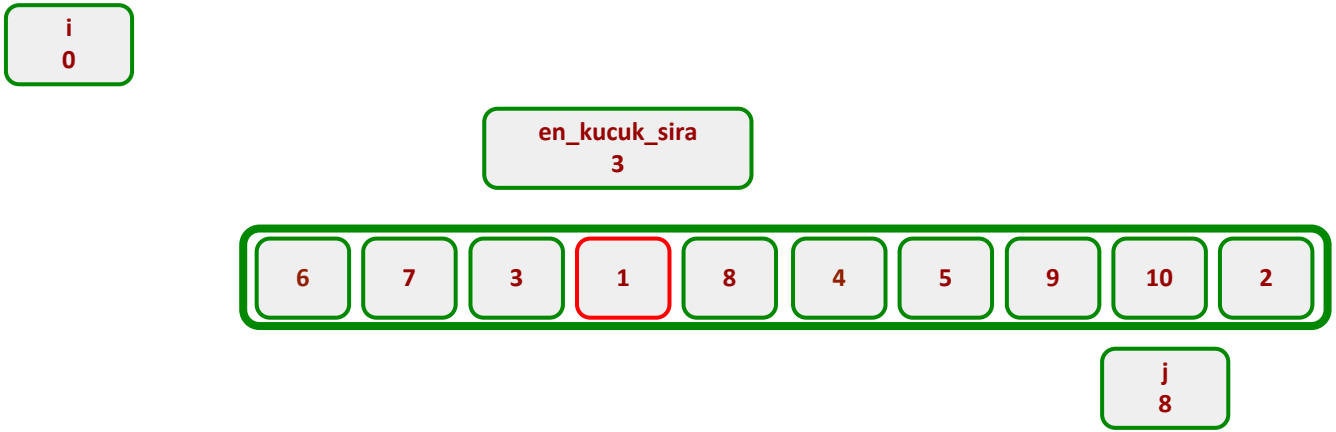
i
0

en_kucuk_sira
3

d[j] < d[en_kucuk_sira] (9 < 1)
en_kucuk_sira = j;

Selection Sort

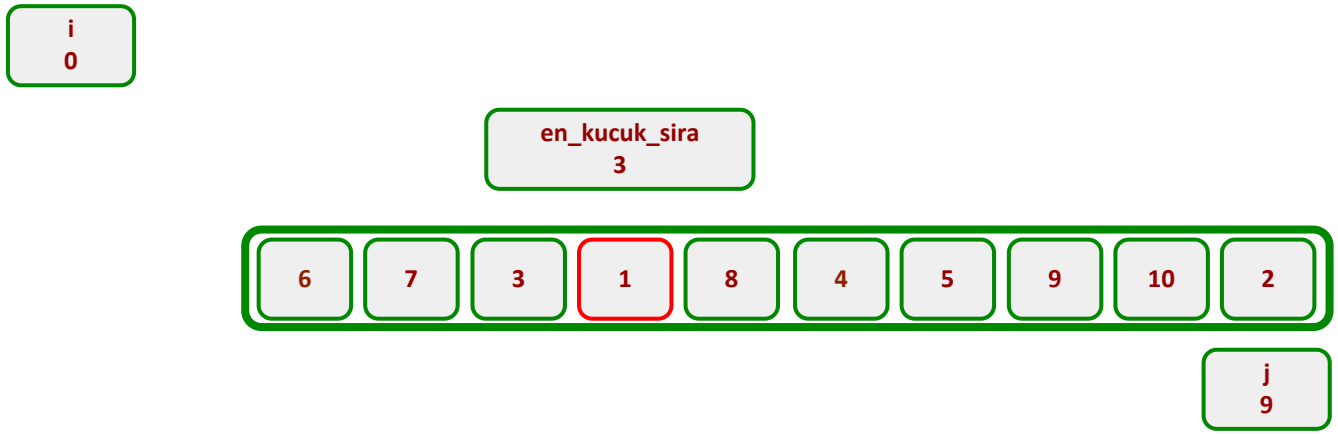
```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;
        for (j = i+1 ; j <= 9 ; j++)
            if (d[j] < d[en_kucuk_sira])
                en_kucuk_sira = j;









    }
    return 0;
}
```



d[j] < d[en_kucuk_sira] (10 < 1)
en_kucuk_sira = j;

Selection Sort

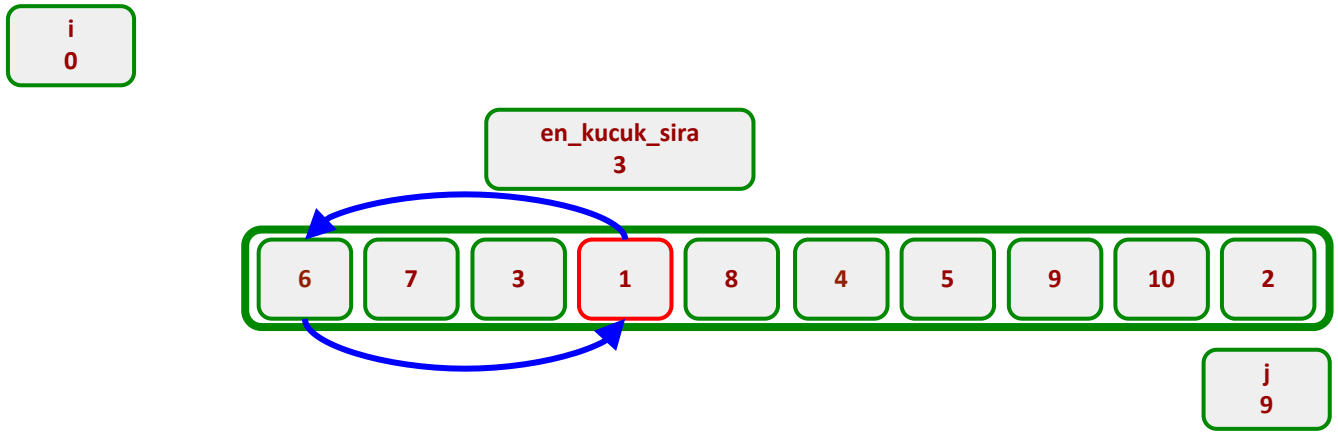
```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;
        for (j = i+1 ; j <= 9 ; j++)
            if (d[j] < d[en_kucuk_sira])
                en_kucuk_sira = j;

    }
    return 0;
}
```



d[j] < d[en_kucuk_sira] (2 < 1)
en_kucuk_sira = j;

Selection Sort

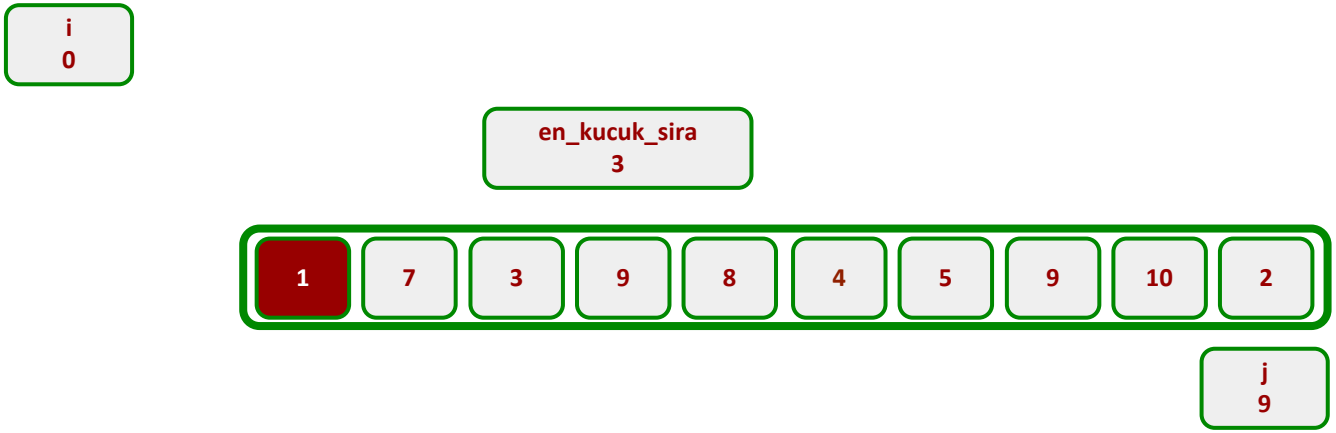
```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;
        for (j = i+1 ; j <= 9 ; j++)
            if (d[j] < d[en_kucuk_sira])
                en_kucuk_sira = j;
        int tmp = d[i];
        d[i] = d[en_kucuk_sira] ;
        d[en_kucuk_sira] = tmp;



    }
    return 0;
}
```



d[j] < d[en_kucuk_sira] (2 < 1)
en_kucuk_sira = j;

Selection Sort

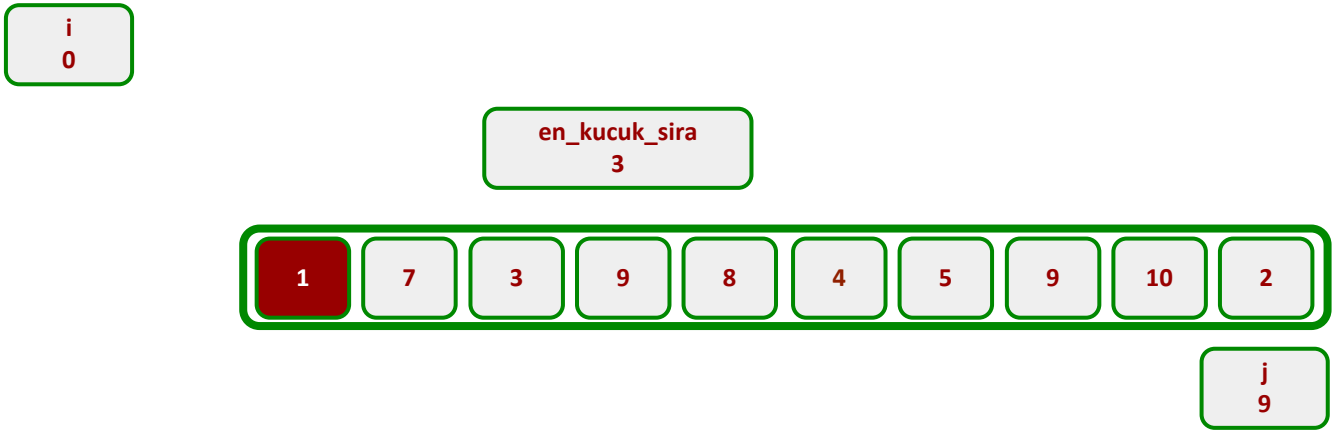
```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;
        for (j = i+1 ; j <= 9 ; j++)
            if (d[j] < d[en_kucuk_sira])
                en_kucuk_sira = j;
        int tmp = d[i];
        d[i] = d[en_kucuk_sira] ;
        d[en_kucuk_sira] = tmp;




    }
    return 0;
}
```



d[j] < d[en_kucuk_sira] (2 < 1)
en_kucuk_sira = j;

Selection Sort

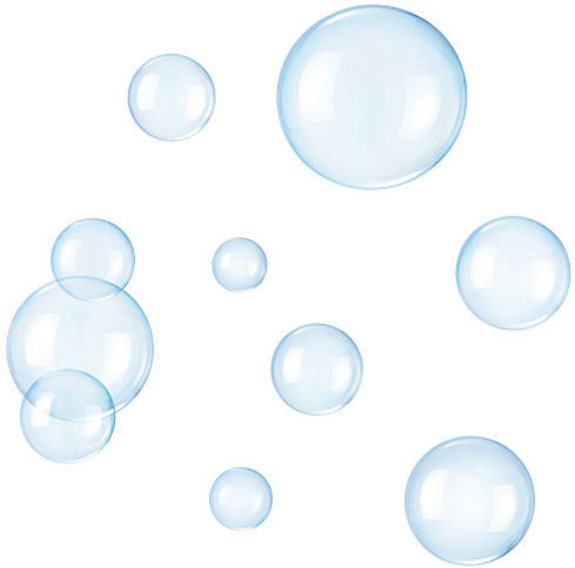
```c
#include <stdio.h>
int main() {
    int d[10] = {6,7,3,1,8,4,5,9,10,2};
    int i,j, en_kucuk_sira;
    for (i = 0 ; i <= 9 ; i++)
        printf("%d ", d[i]);
    printf("\n\n");
    for ( i = 0 ; i <= 8 ;  i++) {
        en_kucuk_sira = i;
        for (j = i+1 ; j <= 9 ; j++)
            if (d[j] < d[en_kucuk_sira])
                en_kucuk_sira = j;
        int tmp = d[i];
        d[i] = d[en_kucuk_sira] ;
        d[en_kucuk_sira] = tmp;
        printf("i = %d => ", i);
        for (j = 0 ; j <= 9 ; j++)
            printf("%d ", d[j]);
        printf("\n");
    }
    return 0;
}
```



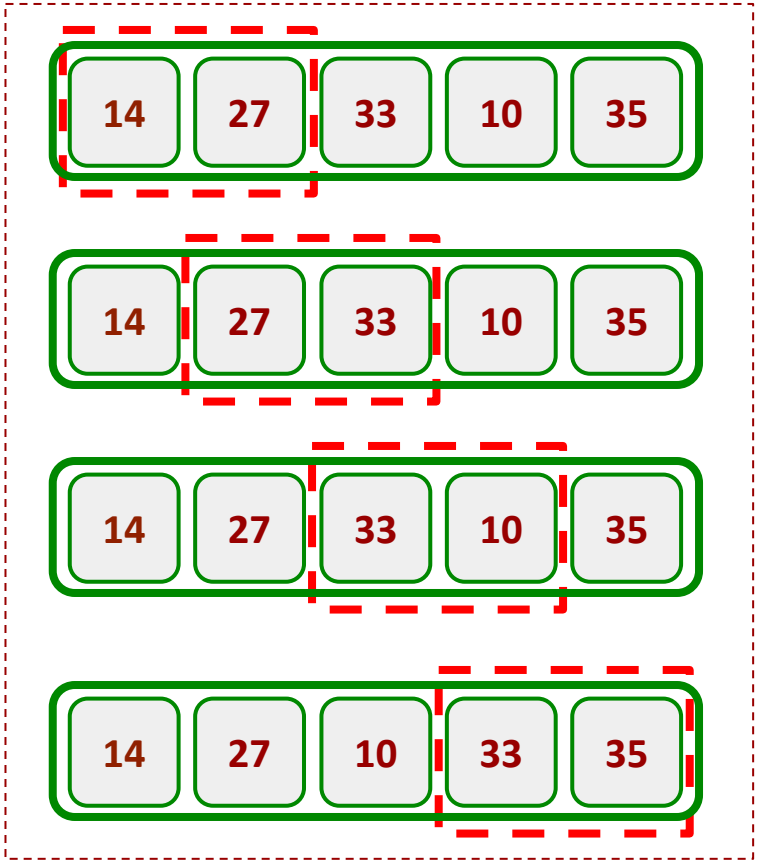
d[j] < d[en_kucuk_sira] (2 < 1)
en_kucuk_sira = j;

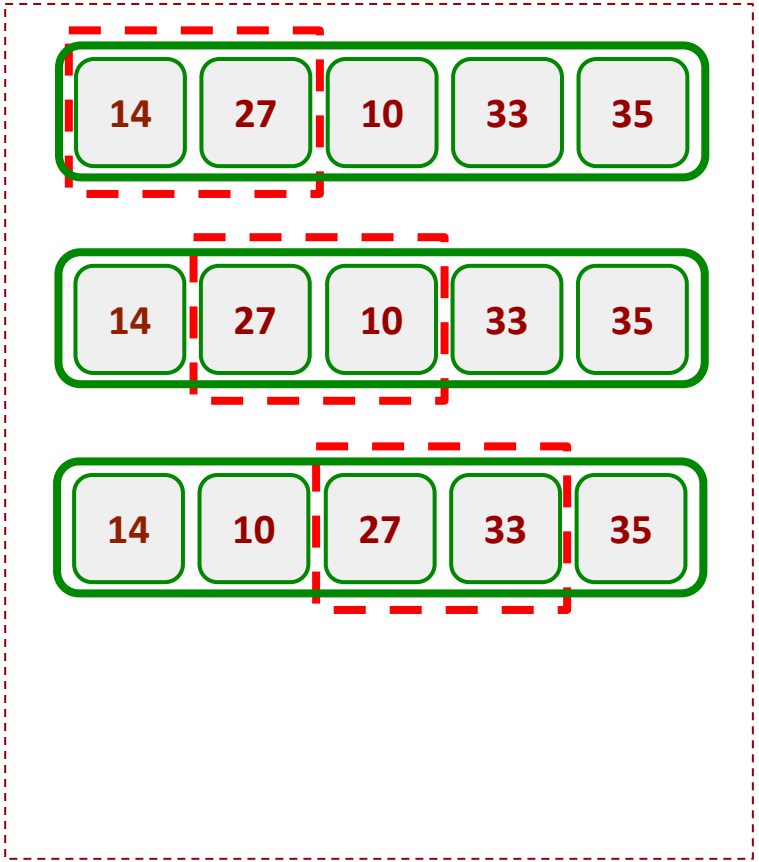
kabarcık sıralama

14	27	33	10	35

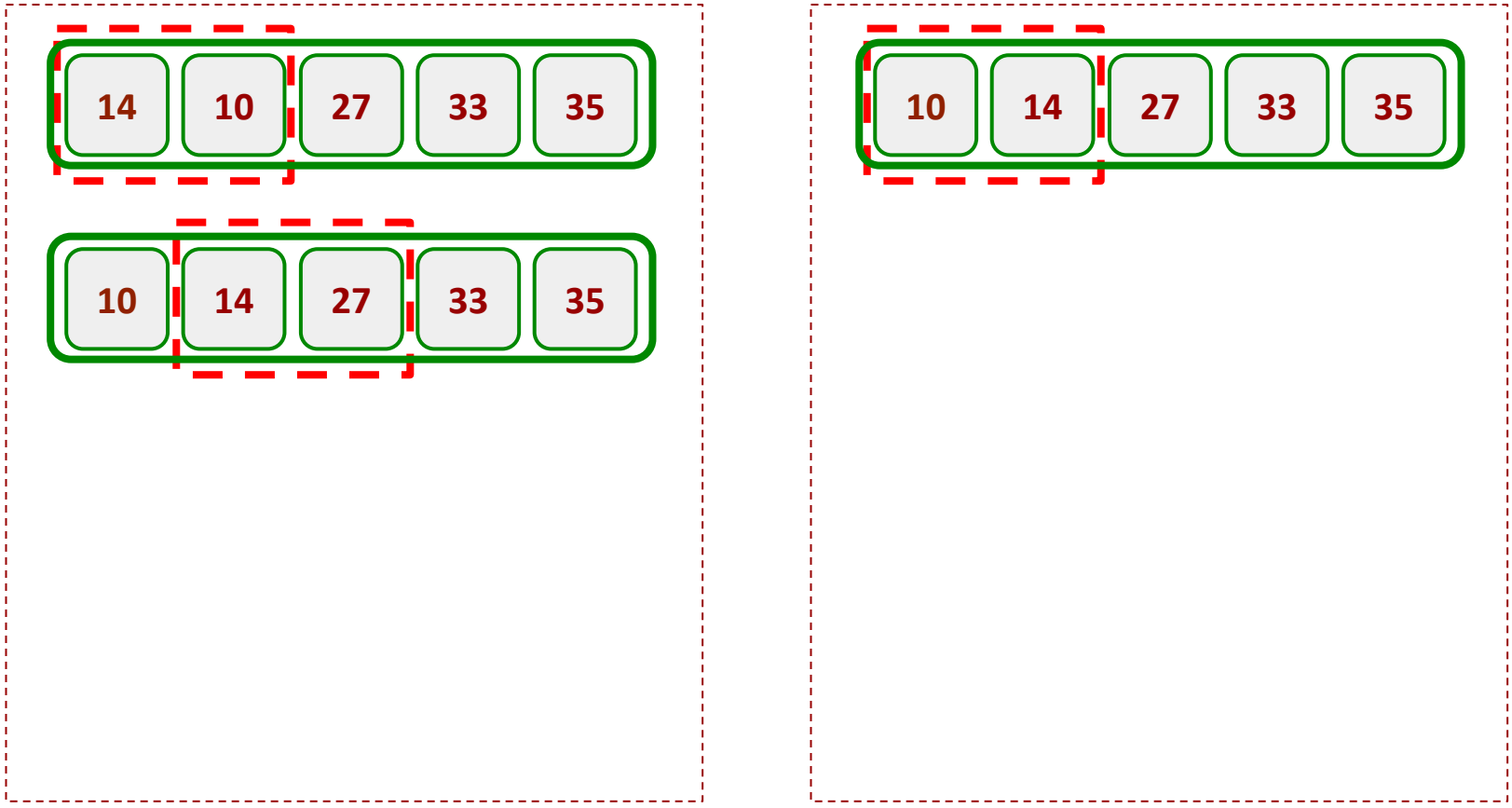


kabarcık sıralama

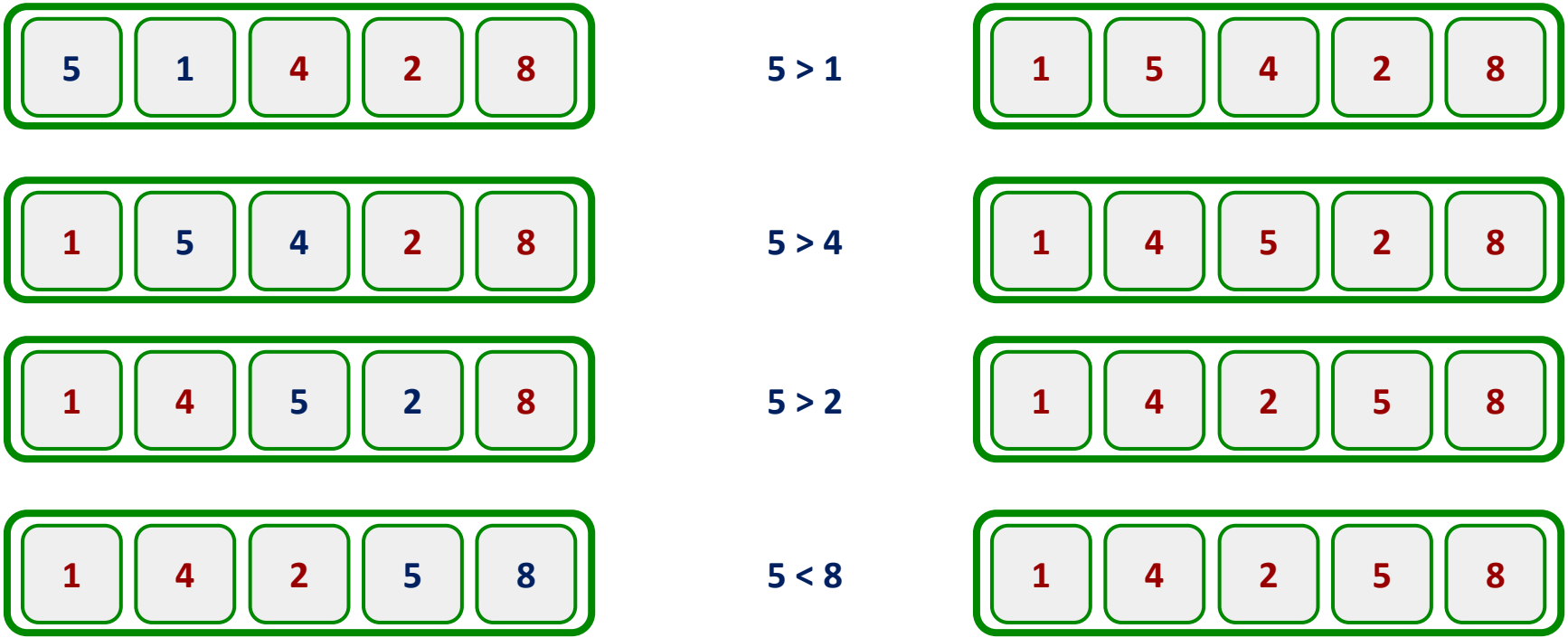




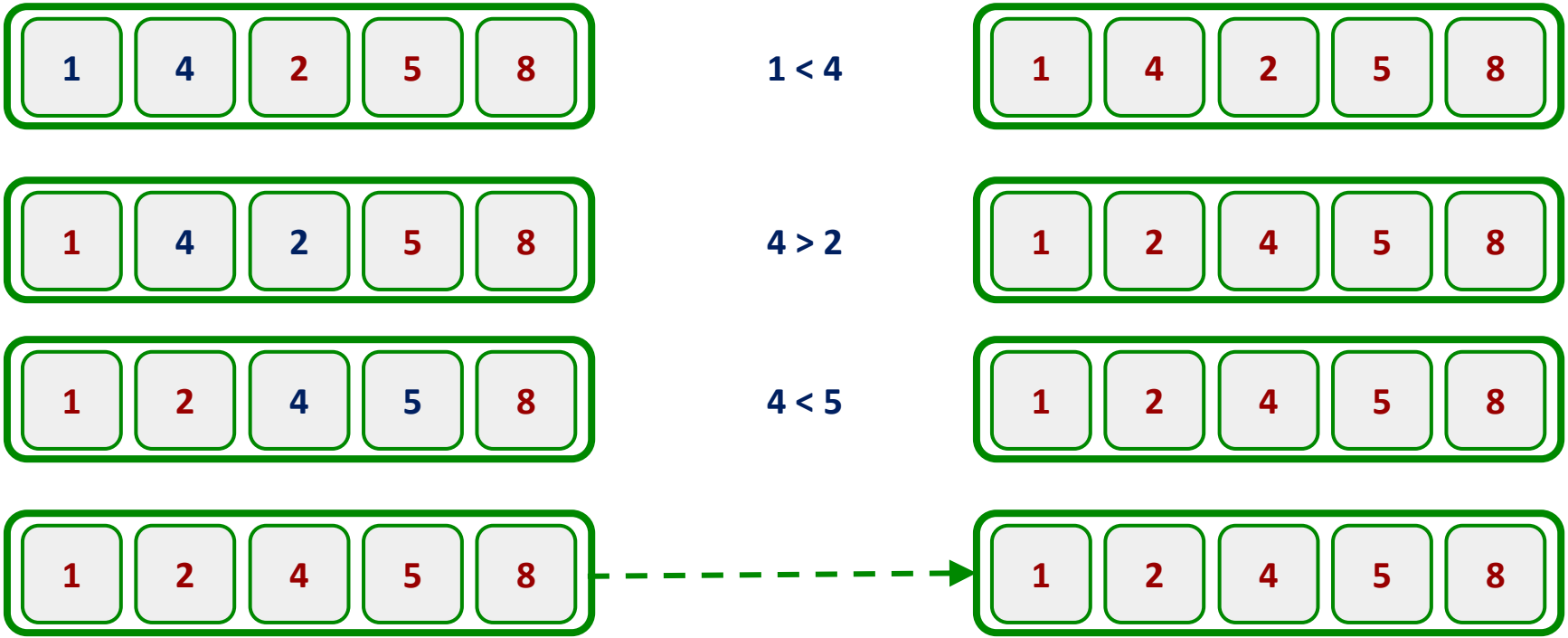
kabarcık sıralama



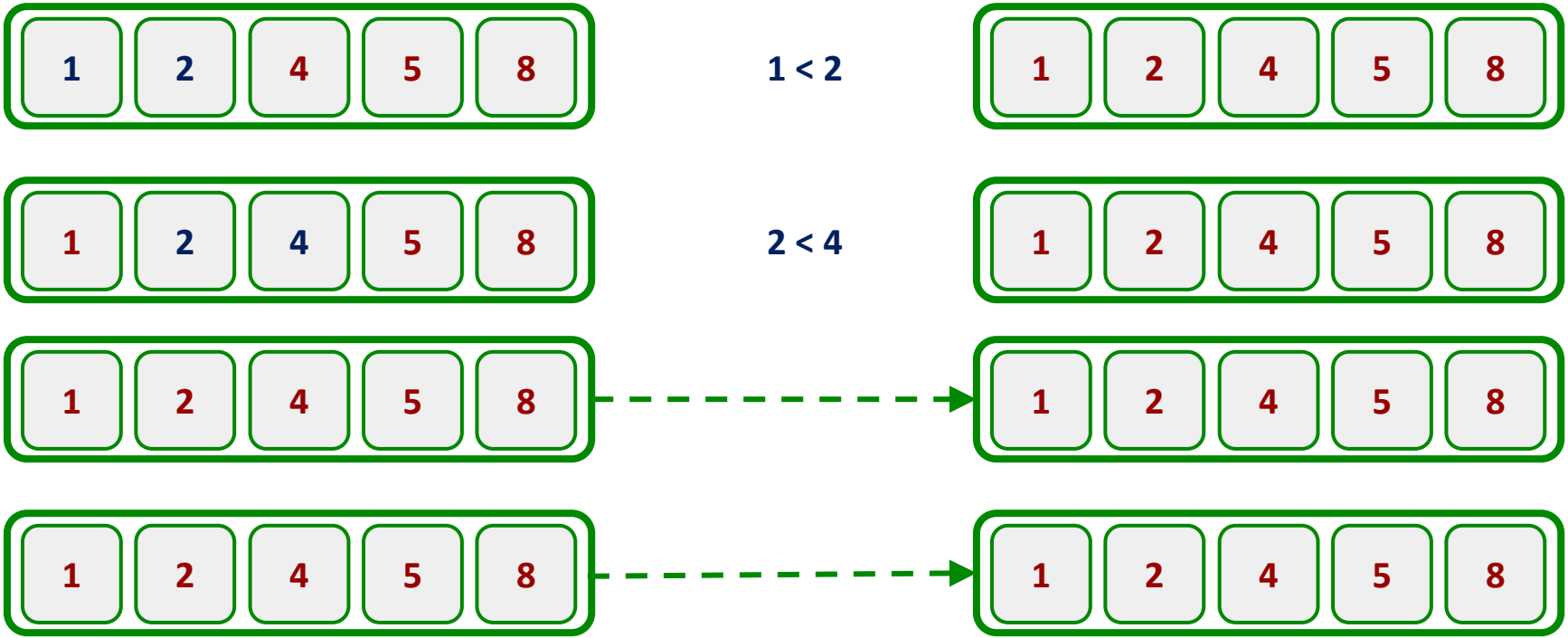
kabarcık sıralama



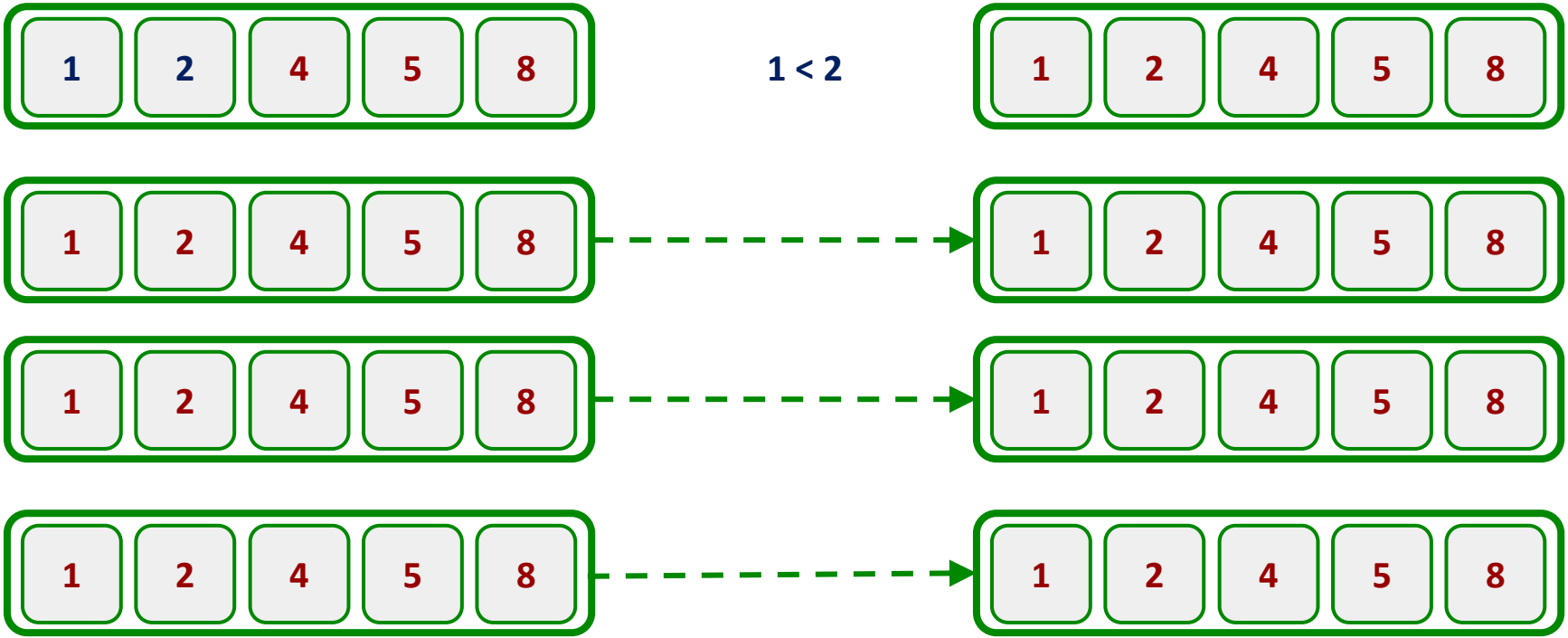
kabarcık sıralama



kabarcık sıralama



kabarcık sıralama



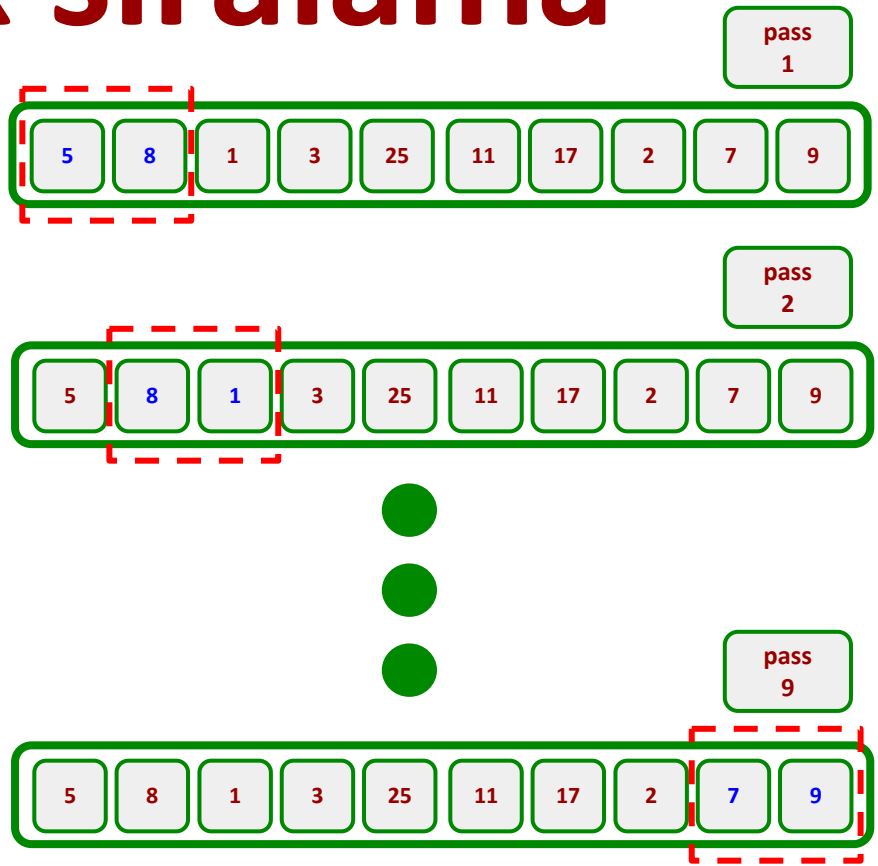
kabarcık sıralama

```
#include <stdio.h>
int main() {
                int n[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7,
9};
                int pass, mov;
                int tmp;
                printf("sirasiz hali:\n");
                for (i = 0 ; i < 10 ; i++)
                                printf("%d ", n[i]);
                printf("\n");
```


```
                printf("sirali hali:\n");
                for (i = 0 ; i < 10 ; i++)
                                printf("%d ", n[i]);
```

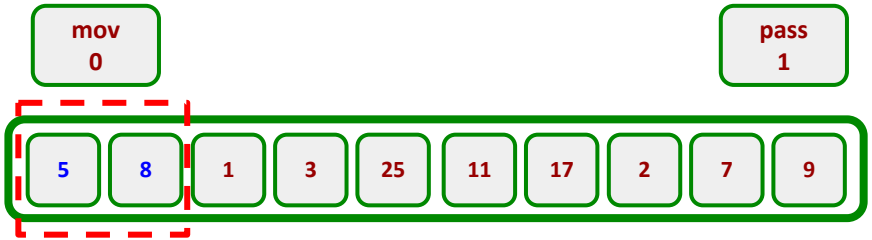
kabarcık sıralama

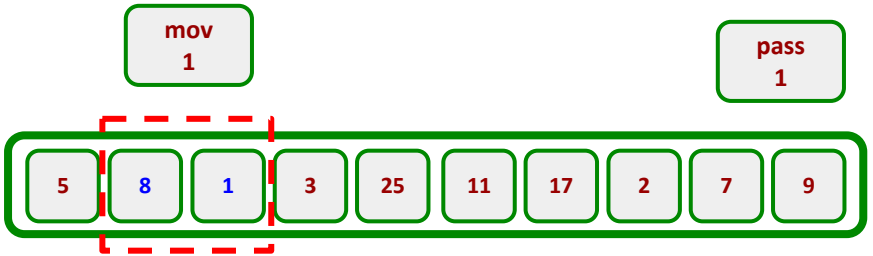
```
#include <stdio.h>
int main() {

                int n[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7,
9};

                int pass, mov;
                int tmp;
                printf("sirasiz hali:\n");
                for (i = 0 ; i < 10 ; i++)
                                printf("%d ", n[i]);
                printf("\n");
                for ( pass=1 ; pass < 10 ; pass++ ) {









                }
                printf("sirali hali:\n");
                for (i = 0 ; i < 10 ; i++)
                                printf("%d ", n[i]);
```



kabarcık sıralama

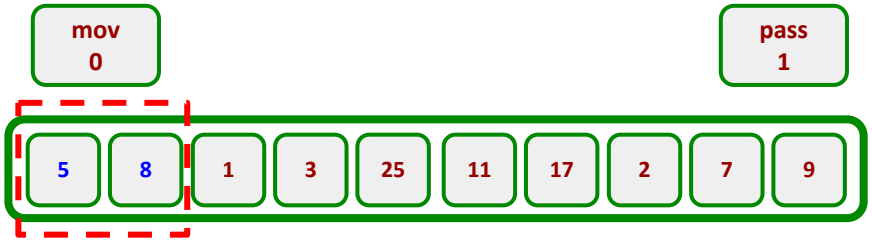
```
#include <stdio.h>
int main() {
        int n[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7,
9};
        int pass, mov;
        int tmp;
        printf("sirasiz hali:\n");
        for (i = 0 ; i < 10 ; i++)
                printf("%d ", n[i]);
        printf("\n");
        for ( pass=1 ; pass < 10 ; pass++ ) {
                for (mov=0 ; mov < 10-1
; mov++) {
                }
        }
        printf("sirali hali:\n");
        for (i = 0 ; i < 10 ; i++)
```





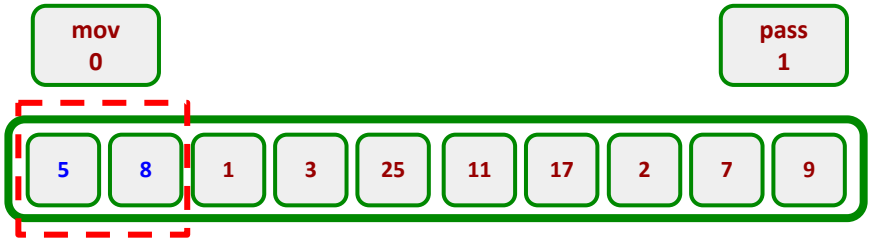
kabarcık sıralama

```
#include <stdio.h>
int main() {
        int n[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7,
9};
        int pass, mov;
        int tmp;
        printf("sirasiz hali:\n");
        for (i = 0 ; i < 10 ; i++)
                printf("%d ", n[i]);
        printf("\n");
        for ( pass=1 ; pass < 10 ; pass++ ) {
                for (mov=0 ; mov < 10-1
; mov++) {
                        if (
n[mov] > n[mov+1] ) {









                        }
                }
        }
        printf("sirali hali:\n");
        for (i = 0 ; i < 10 ; i++)
                printf("%d ", n[i]);
```



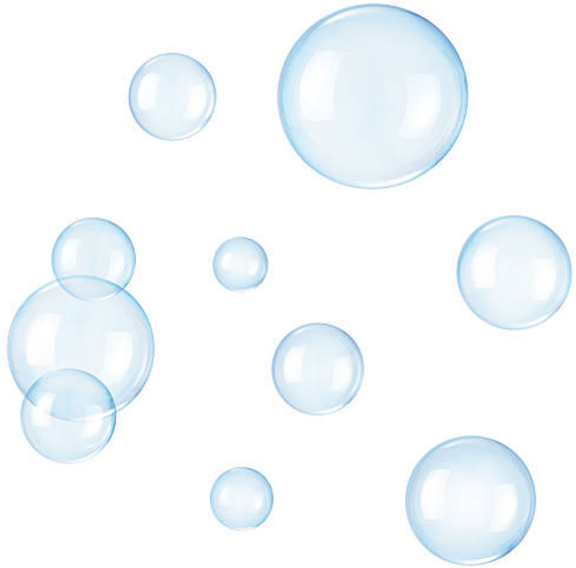
kabarcık sıralama

```
#include <stdio.h>
int main() {
                int n[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7,
9};
                int pass, mov;
                int tmp;
                printf("sirasiz hali:\n");
                for (i = 0 ; i < 10 ; i++)
                                printf("%d ", n[i]);
                printf("\n");
                for ( pass=1 ; pass < 10 ; pass++ ) {
                                for (mov=0 ; mov < 10-1
; mov++) {
                                                if (
n[mov] > n[mov+1] ) {

                tmp = n[mov];

                n[mov] = n[mov+1];

                n[mov+1] = tmp;
                                                }
                                }
                }
                printf("sirali hali:\n");
                for (i = 0 ; i < 10 ; i++)
                                printf("%d ", n[i]);
```



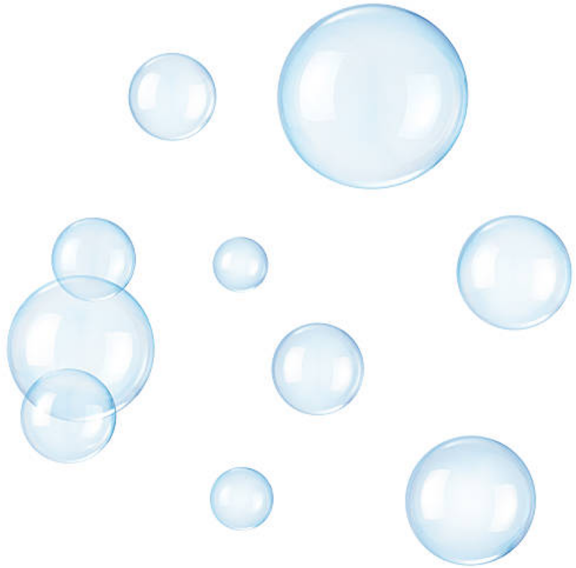
kabarcık sıralama & fonksiyon

```
#include <stdio.h>
void bubble_sort(int d[], int n);
```



```
int main() {
        int d[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7,
9};
        int i;
```

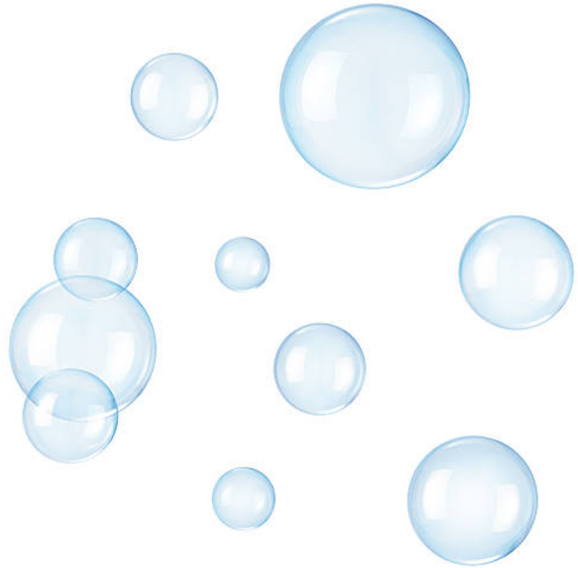
kabarcık sıralama & fonksiyon



```
#include <stdio.h>
void bubble_sort(int [], int);

int main() {
        int d[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7,
9};
        int i;
        bubble_sort(d, 10);
```

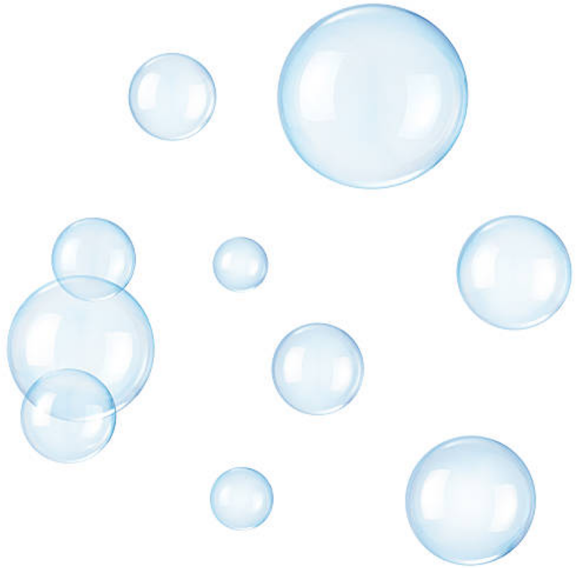
kabarcık sıralama & fonksiyon

```
#include <stdio.h>
void bubble_sort(int d[], int N) {
}
int main() {
        int d[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7,
9};
        int i;
        bubble_sort(d, 10);
```



kabarcık sıralama & fonksiyon

```
#include <stdio.h>
void bubble_sort(int d[], int N) {
                int pass, mov, tmp;
                for ( pass=1 ; pass < N ; pass++ ) {
                }
}
int main() {
                int d[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7,
9};
                int i;
                bubble_sort(d, 10);
```

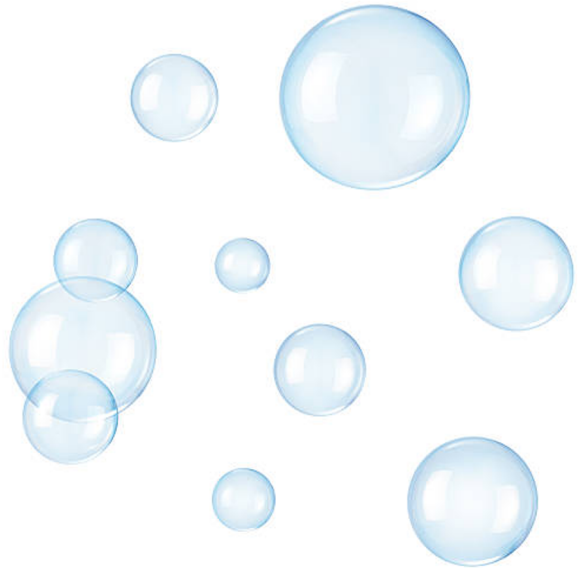


kabarcık sıralama & fonksiyon

```
#include <stdio.h>
void bubble_sort(int d[], int N) {
        int pass, mov, tmp;
        for ( pass=1 ; pass < N ; pass++ ) {
                for (mov=0 ; mov < N-1
; mov++) {
                }
        }
}
int main() {
        int d[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7,
9};
        int i;
        bubble_sort(d, 10);
```

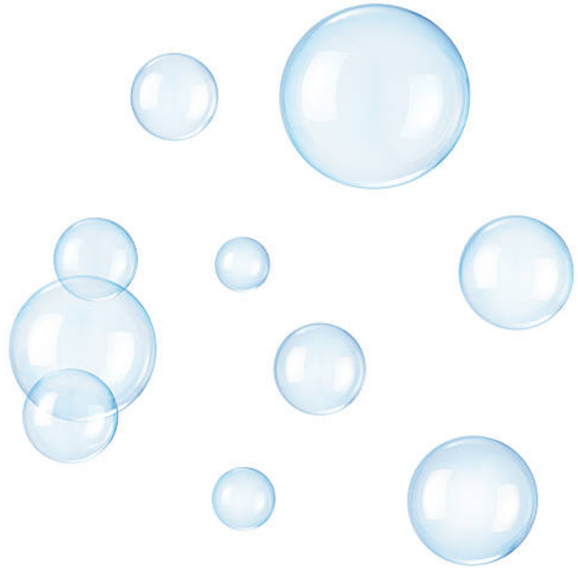
kabarcık sıralama & fonksiyon

```
#include <stdio.h>
void bubble_sort(int d[], int N) {
        int pass, mov, tmp;
        for ( pass=1 ; pass < N ; pass++ ) {
                for (mov=0 ; mov < N-1
; mov++) {
                        if (
d[mov] > d[mov+1] ) {

        tmp = d[mov];

        d[mov] = d[mov+1];

        d[mov+1] = tmp;
                        }
                }
        }
}
int main() {
        int d[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7,
9};
        int i;
        bubble_sort(d, 10);
```



kabarcık sıralama & fonksiyon

```
#include <stdio.h>
void bubble_sort(int d[], int N) {
        int pass, mov, tmp;
        for ( pass=1 ; pass < N ; pass++ ) {
                for (mov=0 ; mov < N-1
; mov++) {
                        if (
d[mov] > d[mov+1] ) {

        tmp = d[mov];

        d[mov] = d[mov+1];

        d[mov+1] = tmp;
                        }
                }
        }
}
int main() {
        int d[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7,
9};
        int i;
        bubble_sort(d, 10);
        printf("sirali hali:\n");
        for (i = 0 ; i < 10 ; i++)
                printf("%d ", d[i]);
```



kabarcık sıralama & arama

```c
#include <stdio.h>
void bubble_sort(int d[], int N) {
    int i, j, tmp;
    for ( i=1 ; i < N ; i++ ) {
        for (j=0 ; j < N-1 ; j++) {
            if ( d[j] > d[j+1] ) {
                                tmp = d[j];
                                d[j] = d[j+1];
                                d[j+1] = tmp;
            }
        }
    }
}
int ikili_ara(int dizi[], int N, int aranan);
int main() {
    int d[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7, 9};
    int i;
    bubble_sort(d, 10);
    printf("sirali hali:\n");
    for (i = 0 ; i < 10 ; i++)
        printf("%d ", d[i]);
    printf("\n");
    while (1) {
        int aranan;
        printf("aranacak elemani giriniz:");
        scanf("%d", &aranan);
        int yer = ikili_ara(d, 10, aranan);
        if (yer == -1)
            printf("%d dizide yok\n", aranan);
        else
            printf("%d'nin yeri: %d\n", aranan, yer);
    }
                                return 0;
}
int ikili_ara(int dizi[], int N, int aranan) {
    int bas = 0;
    int son = N-1;
    int orta;
    while (bas <= son) {
        orta = (bas + son) / 2;
        if (dizi[orta] == aranan)
            return orta;
        else if (dizi[orta] > aranan)
            son = orta - 1;
        else
            bas = orta + 1;
    }
    return -1;
}
```

Sorular