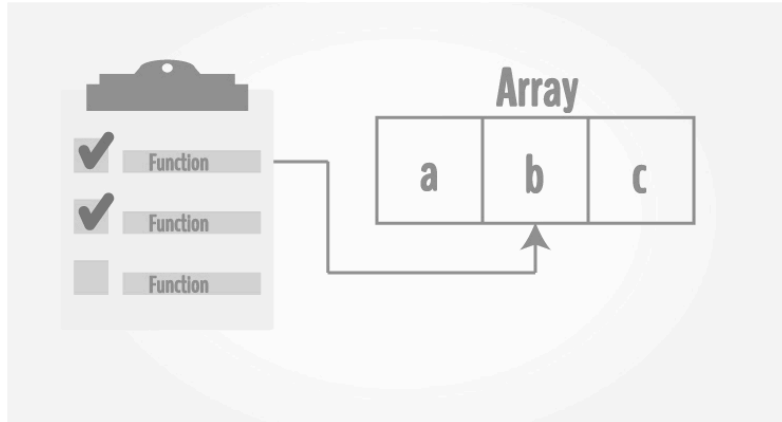


Diziler



Suhap
SAHIN
Onur GÖK

Fonksiyon & Dizi

main()

a = 5

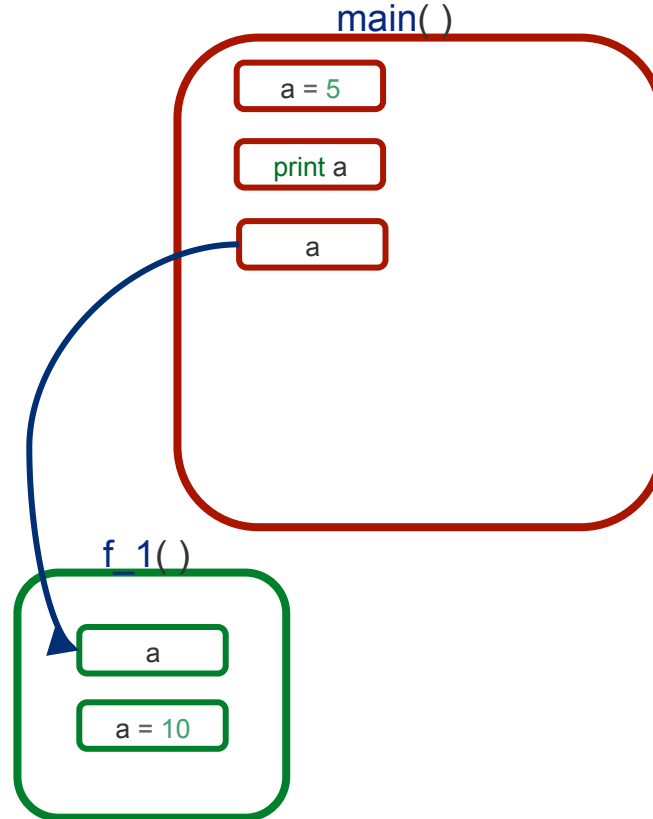
print a

```
int main() {  
    int a = 5;  
    printf("a: %d\n", a)  
  
    return 0;  
}
```

Fonksiyon & Dizi

```
void f_1(int a) {  
}
```

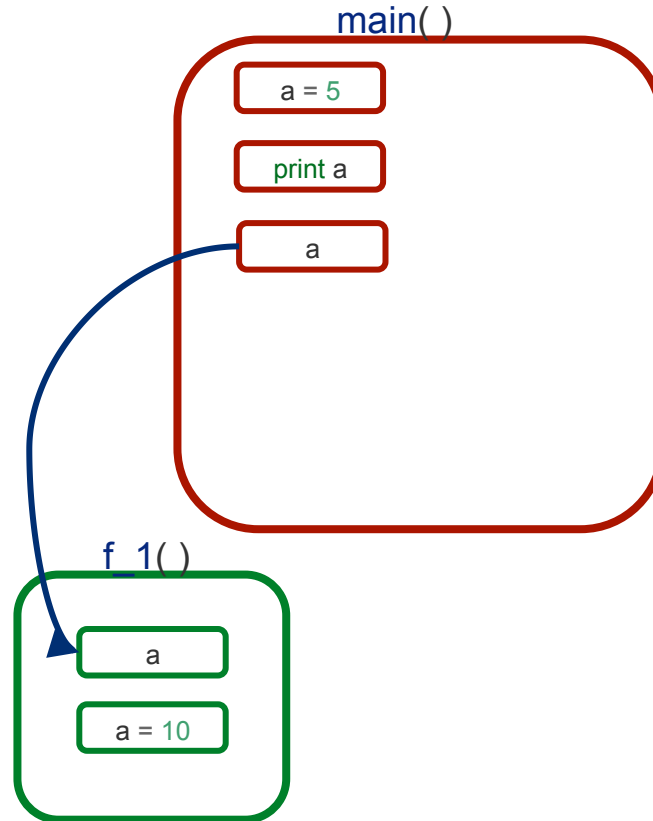
```
int main() {  
    int a = 5;  
    printf("a: %d\n", a);  
    f_1(a);  
  
    return 0;  
}
```



Fonksiyon & Dizi

```
void f_1(int a) {  
    a = 10;  
}
```

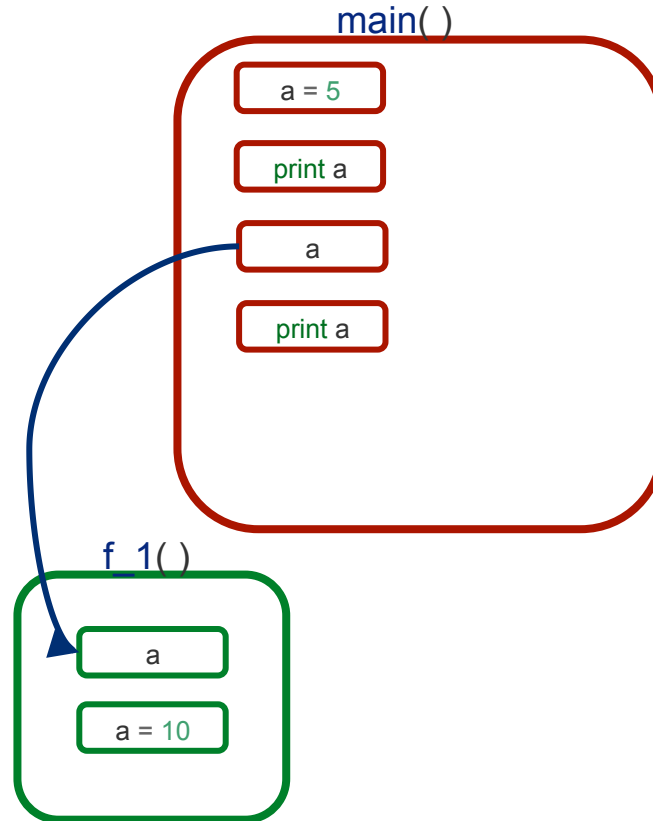
```
int main() {  
    int a = 5;  
    printf("a: %d\n", a);  
    f_1(a);  
  
    return 0;  
}
```



Fonksiyon & Dizi

```
void f_1(int a) {  
    a = 10;  
}
```

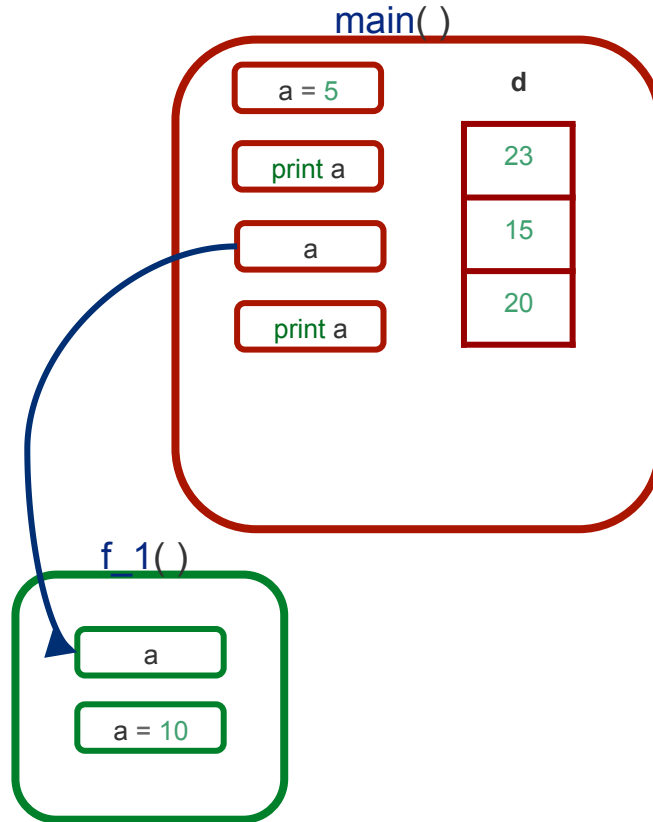
```
int main() {  
    int a = 5;  
    printf("a: %d\n", a)  
    f_1(a);  
    printf("a: %d\n", a);  
  
    return 0;  
}
```



Fonksiyon & Dizi

```
void f_1(int a) {  
    a = 10;  
}
```

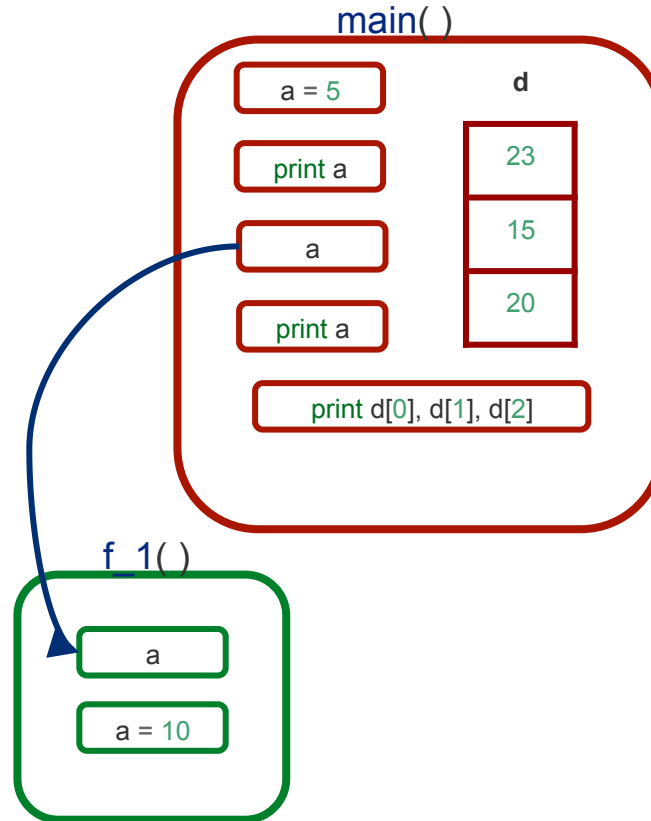
```
int main() {  
    int a = 5;  
    printf("a: %d\n", a);  
    f_1(a);  
    printf("a: %d\n", a);  
    int d[3] = {11, 22, 33};  
  
    return 0;  
}
```



Fonksiyon & Dizi

```
void f_1(int a) {  
    a = 10;  
}
```

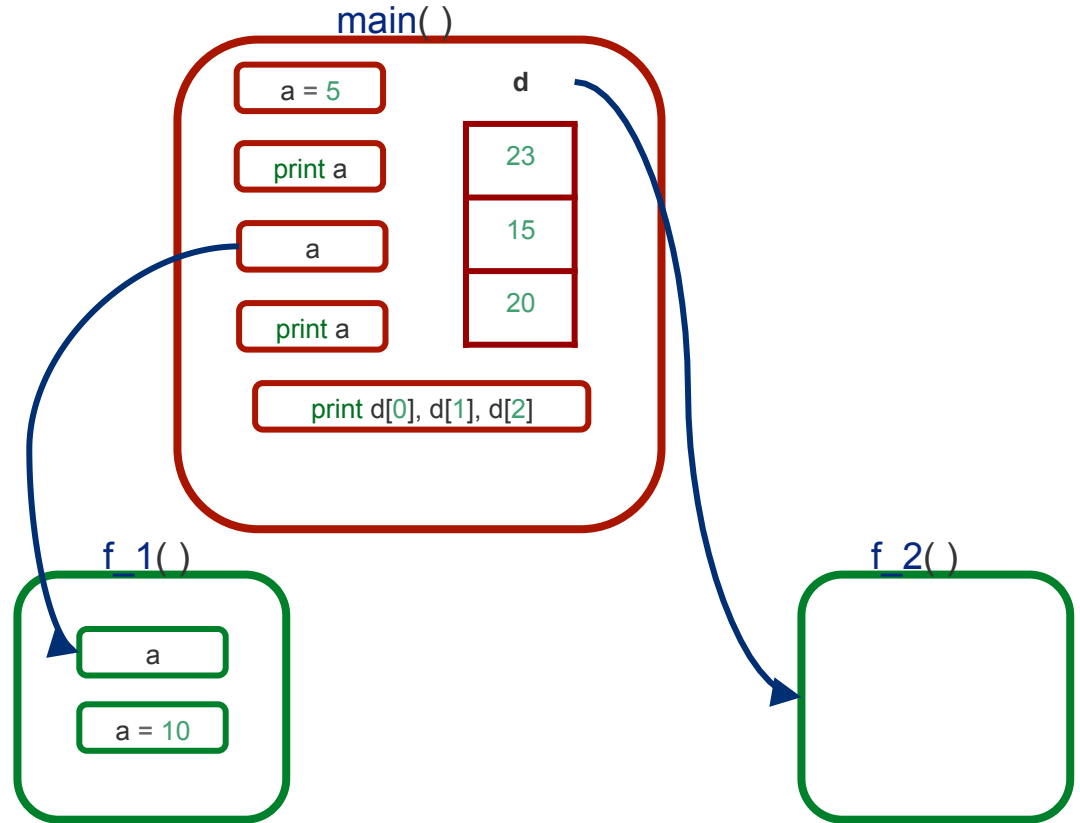
```
int main() {  
    int a = 5;  
    printf("a: %d\n", a);  
    f_1(a);  
    printf("a: %d\n", a);  
    int d[3] = {11, 22, 33};  
    printf("d: %d %d %d\n", d[0], d[1], d[2]);  
  
    return 0;  
}
```



Fonksiyon & Dizi

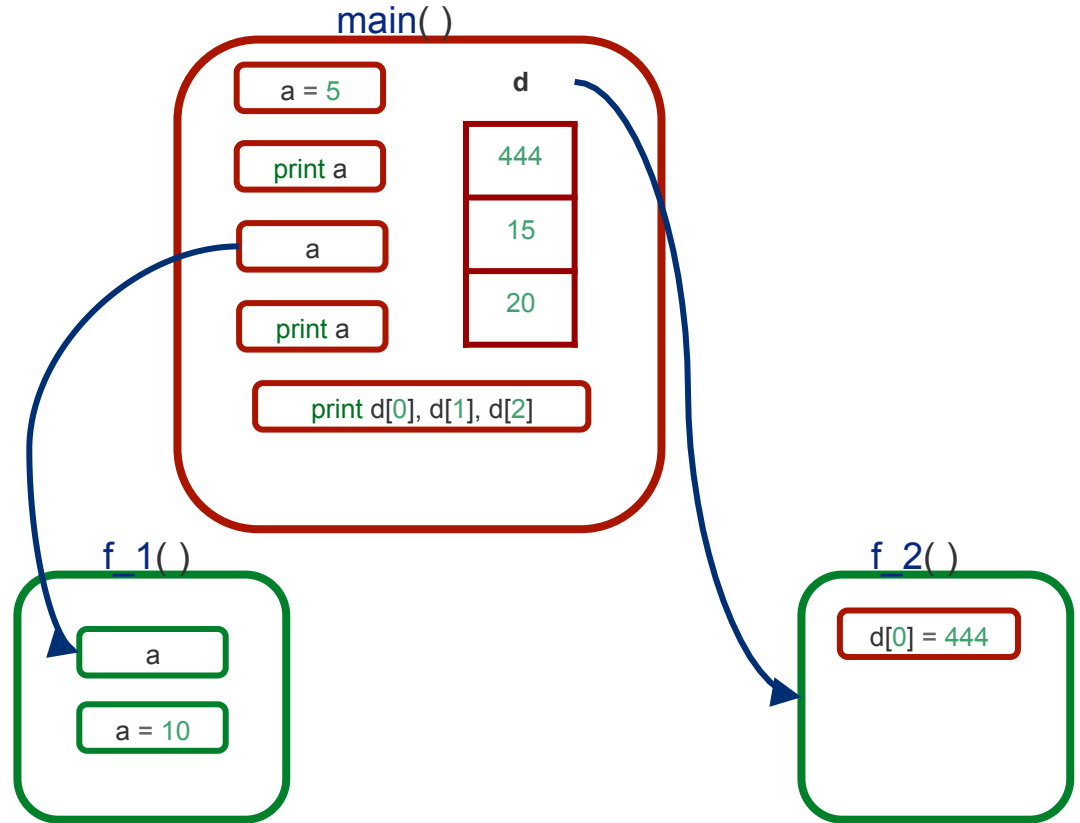
```
void f_1(int a) {  
    a = 10;  
}  
void f_2(int d[]) {
```

```
}  
int main() {  
    int a = 5;  
    printf("a: %d\n", a);  
    f_1(a);  
    printf("a: %d\n", a);  
    int d[3] = {11, 22, 33};  
    printf("d: %d %d %d\n", d[0], d[1], d[2]);  
    f_2(d);  
    return 0;  
}
```



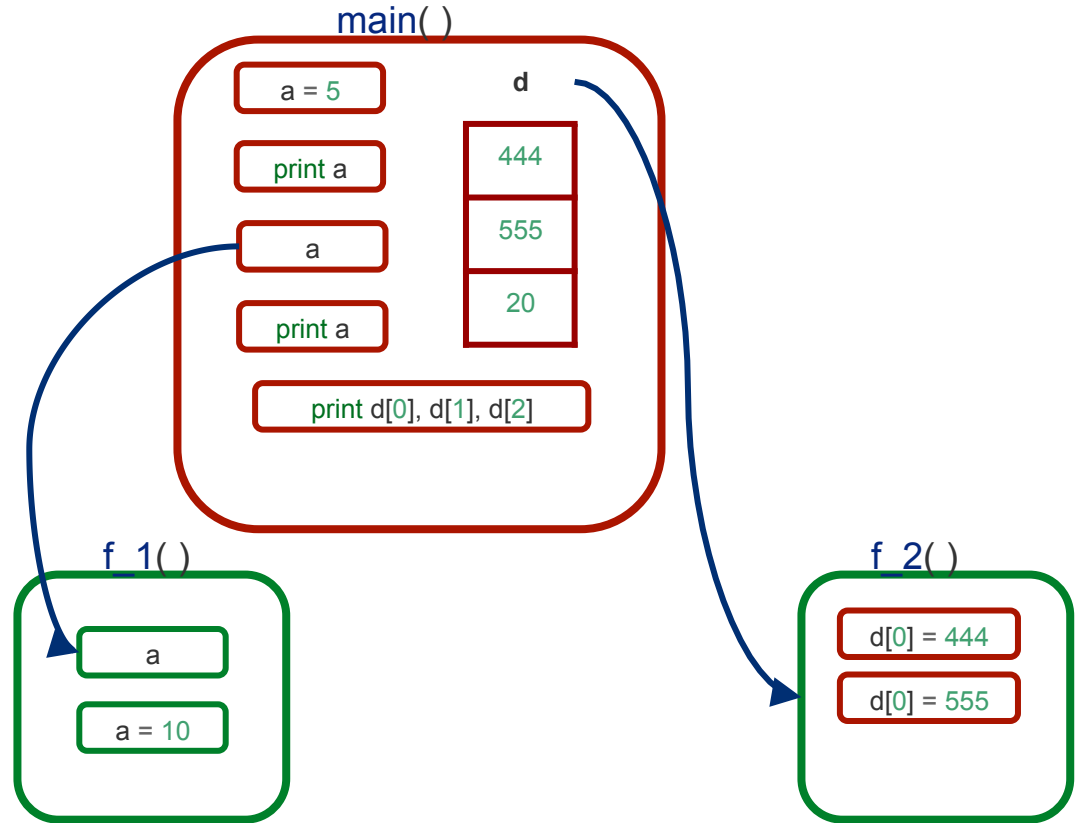
Fonksiyon & Dizi

```
void f_1(int a) {  
    a = 10;  
}  
  
void f_2(int d[]) {  
    d[0] = 444;  
}  
  
int main() {  
    int a = 5;  
    printf("a: %d\n", a);  
    f_1(a);  
    printf("a: %d\n", a);  
    int d[3] = {11, 22, 33};  
    printf("d: %d %d %d\n", d[0], d[1], d[2]);  
    f_2(d);  
  
    return 0;  
}
```



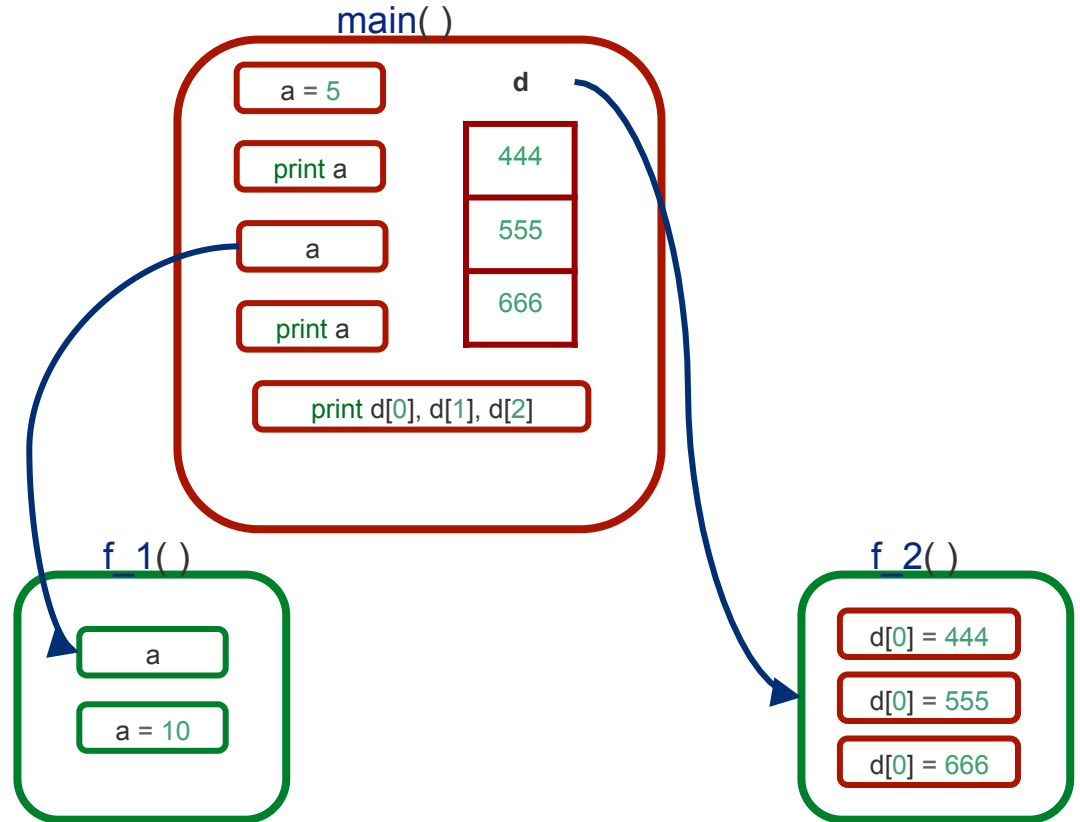
Fonksiyon & Dizi

```
void f_1(int a) {  
    a = 10;  
}  
  
void f_2(int d[]) {  
    d[0] = 444;  
    d[1] = 555;  
}  
  
int main() {  
    int a = 5;  
    printf("a: %d\n", a);  
    f_1(a);  
    printf("a: %d\n", a);  
    int d[3] = {11, 22, 33};  
    printf("d: %d %d %d\n", d[0], d[1], d[2]);  
    f_2(d);  
  
    return 0;  
}
```



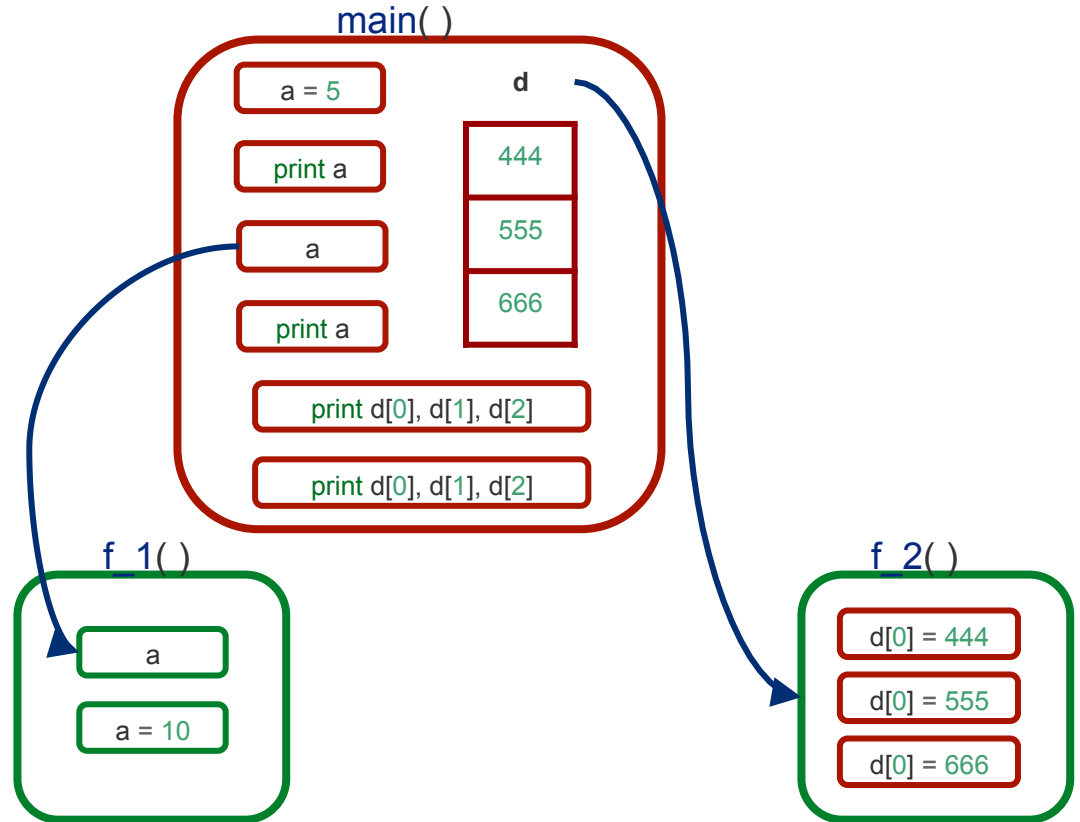
Fonksiyon & Dizi

```
void f_1(int a) {  
    a = 10;  
}  
  
void f_2(int d[]) {  
    d[0] = 444;  
    d[1] = 555;  
    d[2] = 666;  
}  
  
int main() {  
    int a = 5;  
    printf("a: %d\n", a);  
    f_1(a);  
    printf("a: %d\n", a);  
    int d[3] = {11, 22, 33};  
    printf("d: %d %d %d\n", d[0], d[1], d[2]);  
    f_2(d);  
  
    return 0;  
}
```



Fonksiyon & Dizi

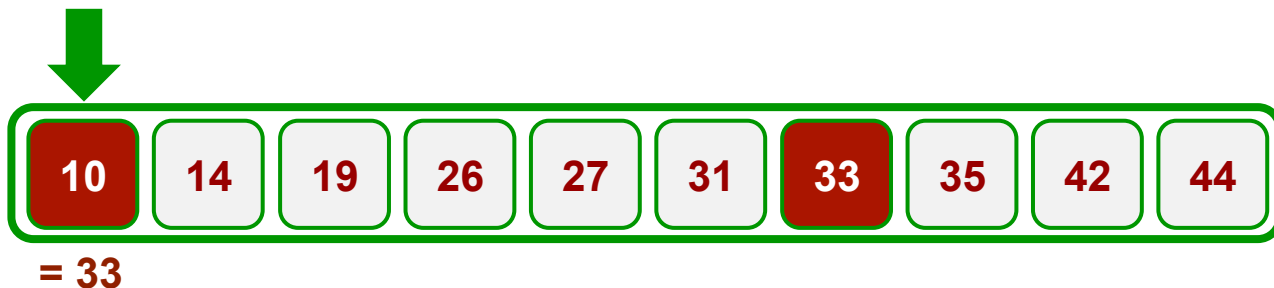
```
void f_1(int a) {  
    a = 10;  
}  
  
void f_2(int d[]) {  
    d[0] = 444;  
    d[1] = 555;  
    d[2] = 666;  
}  
  
int main() {  
    int a = 5;  
    printf("a: %d\n", a);  
    f_1(a);  
    printf("a: %d\n", a);  
    int d[3] = {11, 22, 33};  
    printf("d: %d %d %d\n", d[0], d[1], d[2]);  
    f_2(d);  
    printf("d: %d %d %d\n", d[0], d[1], d[2]);  
    return 0;  
}
```



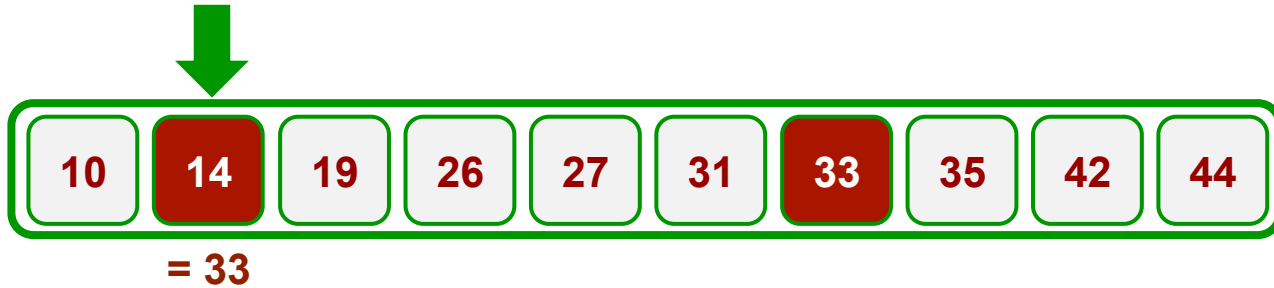
Dogrusal Arama



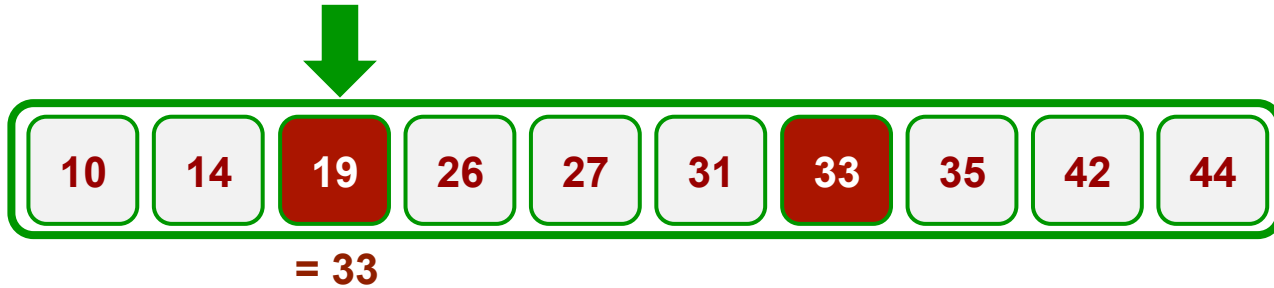
Dogrusal Arama



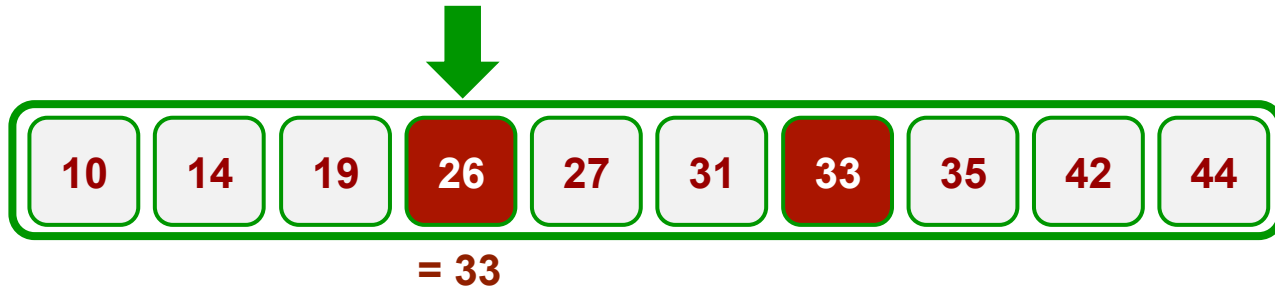
Dogrusal Arama



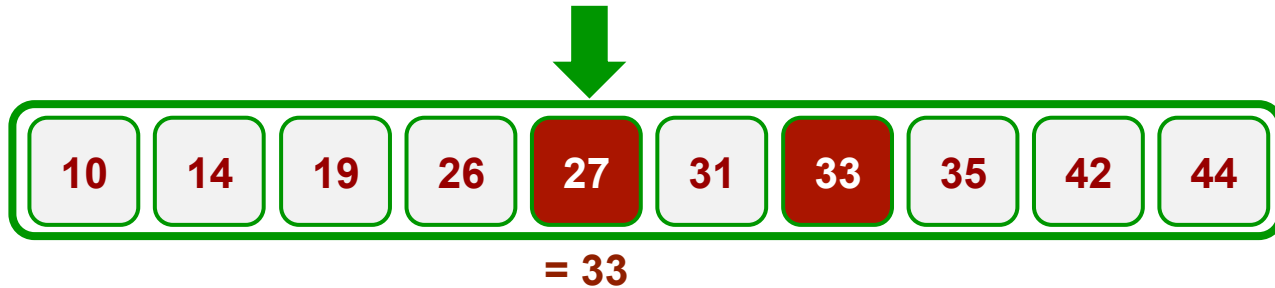
Dogrusal Arama



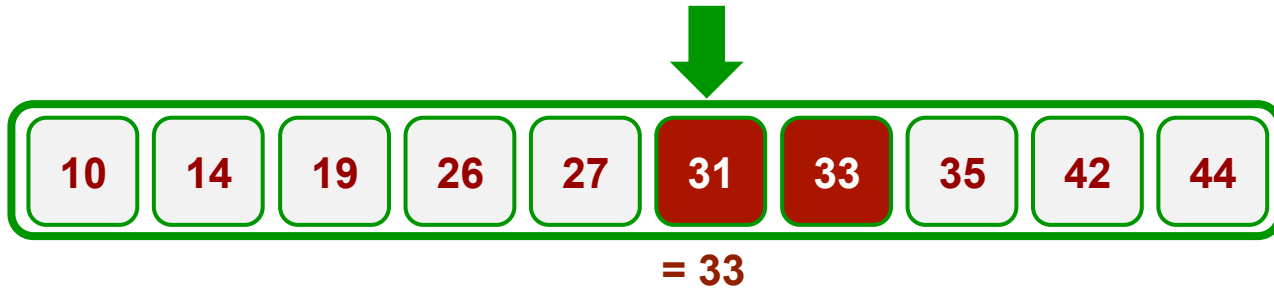
Dogrusal Arama



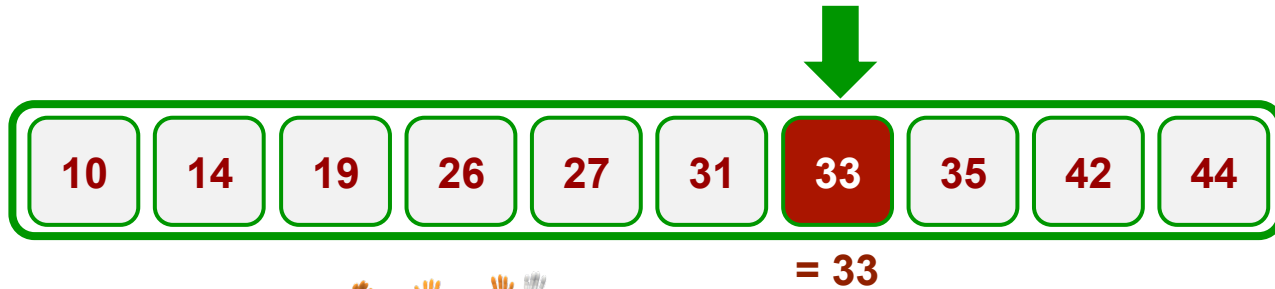
Dogrusal Arama



Dogrusal Arama



Dogrusal Arama



Dogrusal Arama

```
#include <stdio.h>
int main() {
    int n[10] = {10, 14, 19, 26, 27, 11, 33, 35, 42, 44};
    while (1) {
```



```
    }
    return 0;
}
```

Dogrusal Arama

```
#include <stdio.h>
int main() {
    int n[10] = {10, 14, 19, 26, 27, 11, 33, 35, 42, 44};
    while (1) {
        int i, aranan;
        printf("aramak istediginiz sayiyi giriniz:");
        scanf("%d", &aranan);

    }
    return 0;
}
```



Dogrusal Arama

```
#include <stdio.h>
int main() {
    int n[10] = {10, 14, 19, 26, 27, 11, 33, 35, 42, 44};
    while (1) {
        int i, aranan;
        printf("aramak istediginiz sayiyi giriniz:");
        scanf("%d", &aranan);
        int yer = -1;

    }
    return 0;
}
```



Dogrusal Arama

```
#include <stdio.h>
int main() {
    int n[10] = {10, 14, 19, 26, 27, 11, 33, 35, 42, 44};
    while (1) {
        int i, aranan;
        printf("aramak istediginiz sayiyi giriniz:");
        scanf("%d", &aranan);
        int yer = -1;
        for ( i = 0 ; i < 10 ; i++ )
            if (n[i] == aranan)
                yer = i;

    }
    return 0;
}
```



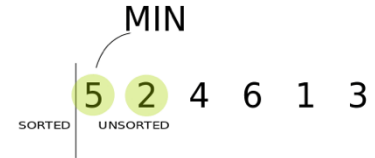
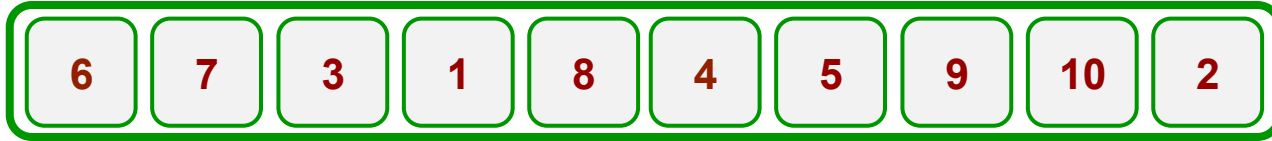
Dogrusal Arama

```
#include <stdio.h>
int main() {
    int n[10] = {10, 14, 19, 26, 27, 11, 33, 35, 42, 44};
    while (1) {
        int i, aranan;
        printf("aramak istediginiz sayiyi giriniz:");
        scanf("%d", &aranan);
        int yer = -1;
        for ( i = 0 ; i < 10 ; i++ )
            if (n[i] == aranan)
                yer = i;
        if (yer == -1)
            printf("dizide yok\n");
        else
            printf("dizide bulundu gu yer: %d\n", yer);
    }
    return 0;
}
```

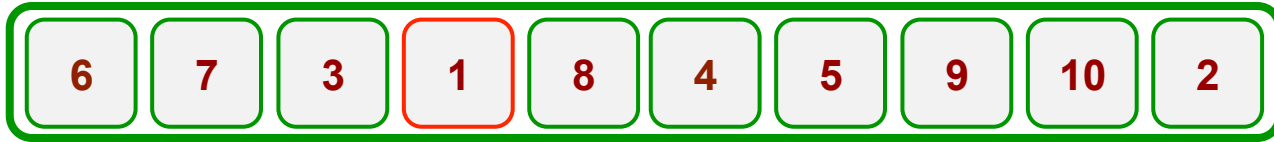
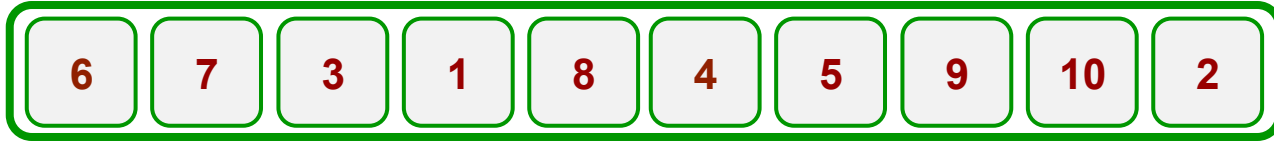


Selection Sort

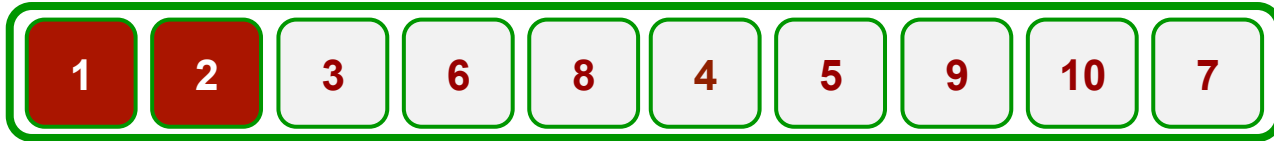
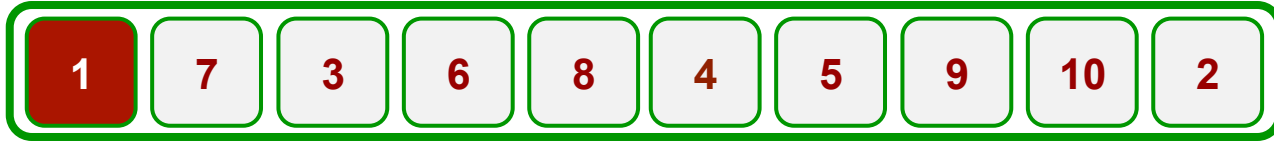
Alt listenin sıralanması



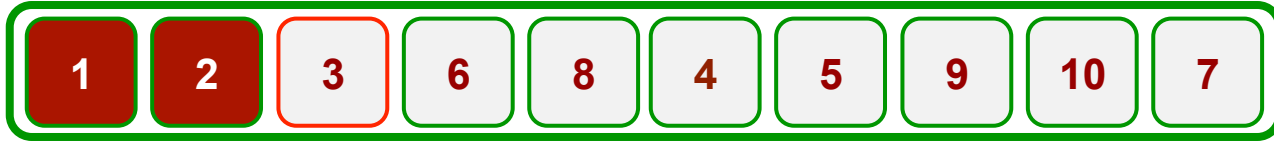
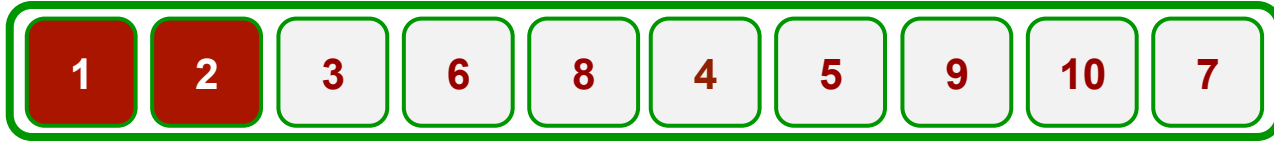
Selection Sort



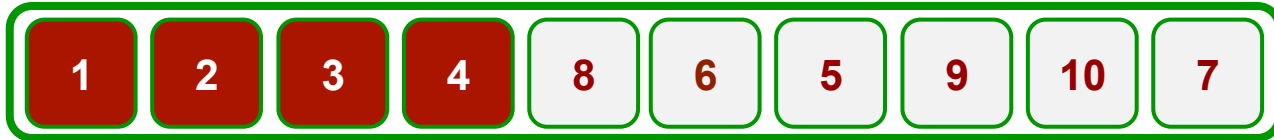
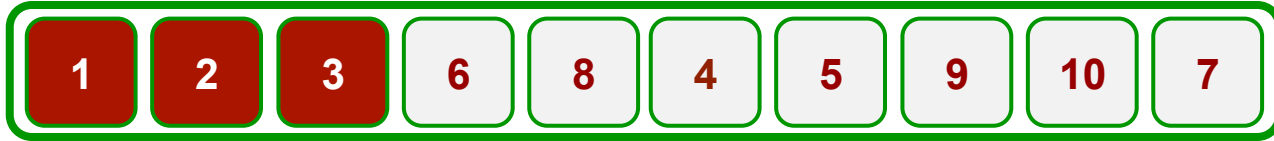
Selection Sort



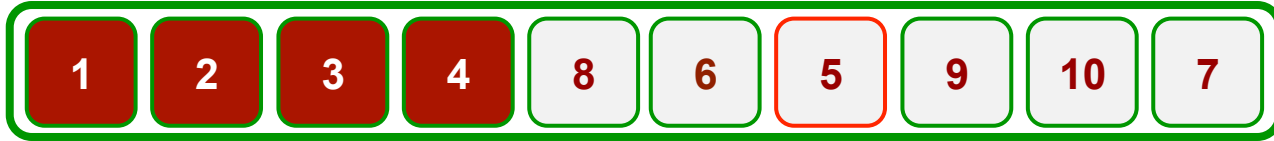
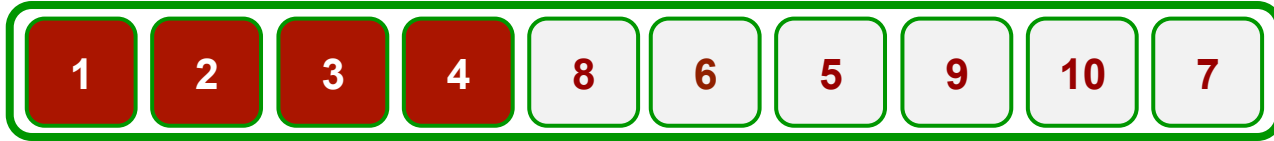
Selection Sort



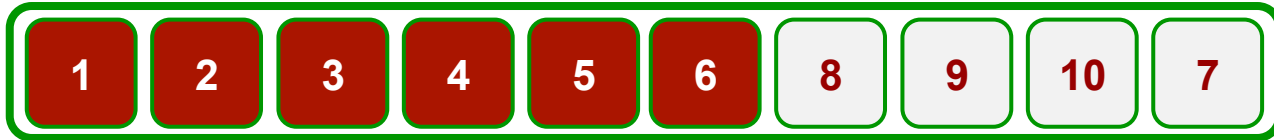
Selection Sort



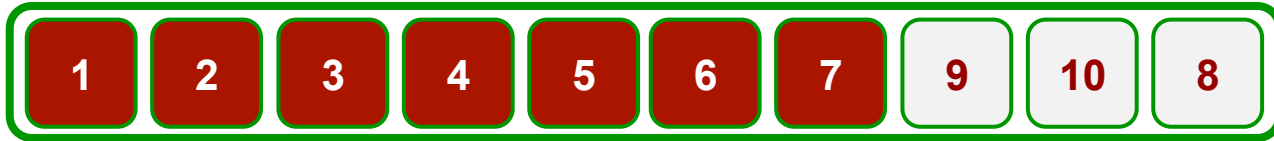
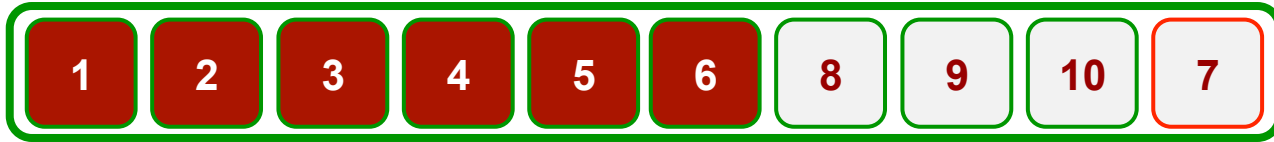
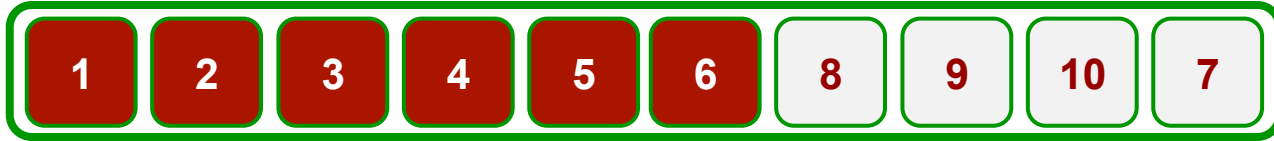
Selection Sort



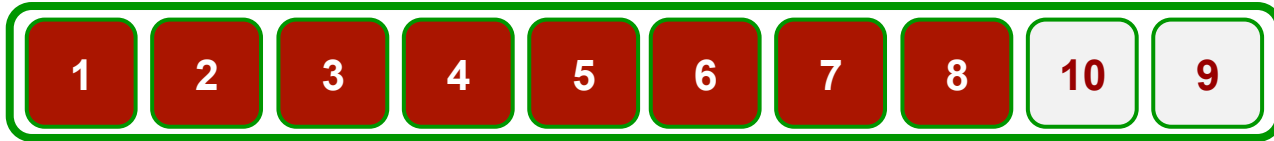
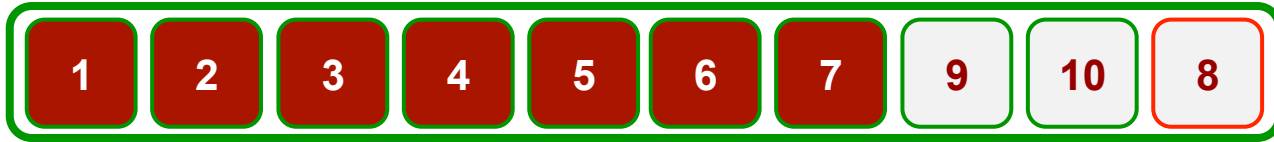
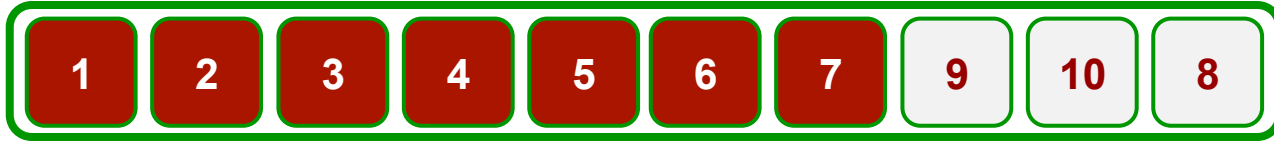
Selection Sort



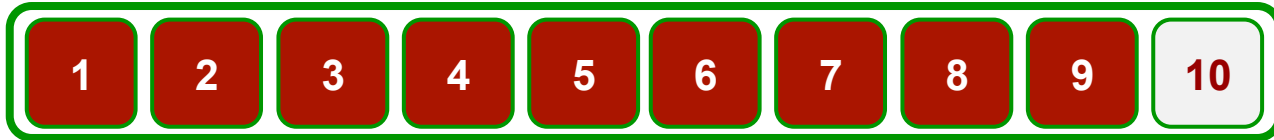
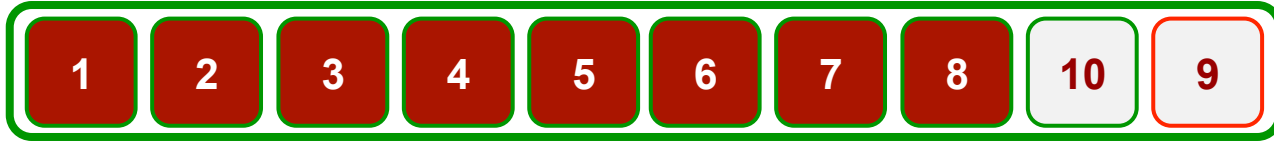
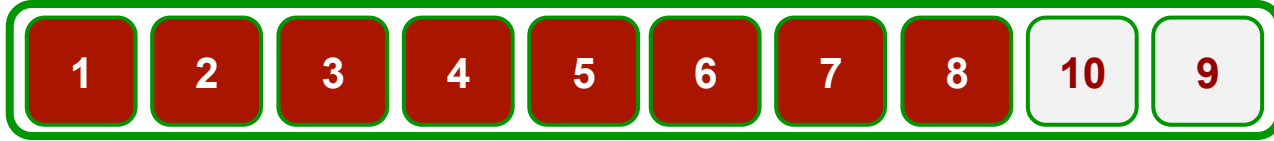
Selection Sort



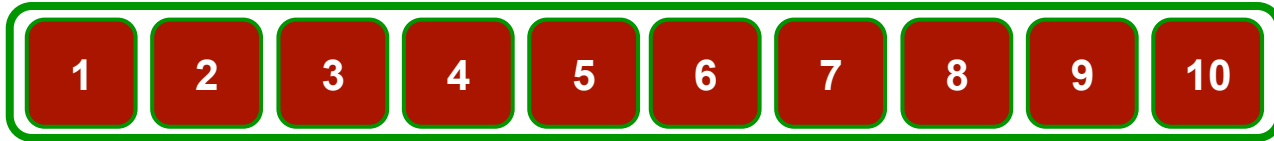
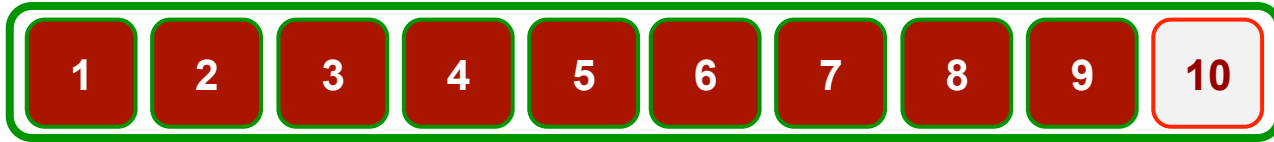
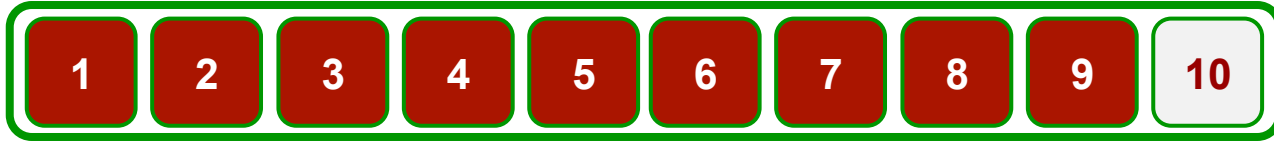
Selection Sort



Selection Sort



Selection Sort



Selection Sort

```
#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

```
#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;
}
```

i
0

en_kucuk_sira
0

6

7

3

1

8

4

5

9

10

2

Selection Sort

```
#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
0

6

7

3

1

8

4

5

9

10

2

j
1

$d[j] < d[\text{en_kucuk_sira}]$ ($7 < 6$)
 $\text{en_kucuk_sira} = j;$

Selection Sort

```
#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 en_kucuk_sira
0 2

6	7	3	1	8	4	5	9	10	2
---	---	---	---	---	---	---	---	----	---

j
2

$d[j] < d[\text{en_kucuk_sira}]$ ($3 < 6$)
 $\text{en_kucuk_sira} = j;$

Selection Sort

```
#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_k
en_kucuk_sira
3



j
3

$d[j] < d[\text{en_kucuk_sira}]$ ($1 < 3$)
 $\text{en_kucuk_sira} = j;$

Selection Sort

```
#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



j
4

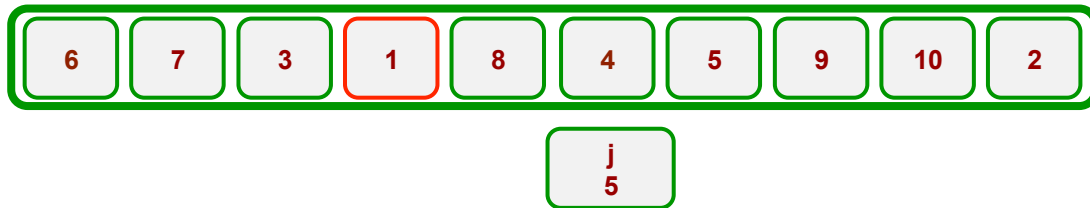
$d[j] < d[\text{en_kucuk_sira}]$ ($8 < 1$)
 $\text{en_kucuk_sira} = j;$

Selection Sort

```
#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



j
5

$d[j] < d[\text{en_kucuk_sira}]$ ($4 < 1$)
 $\text{en_kucuk_sira} = j;$

Selection Sort

```
#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



j
6

$d[j] < d[\text{en_kucuk_sira}]$ ($5 < 1$)
 $\text{en_kucuk_sira} = j;$

Selection Sort

```
#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



j
7

$d[j] < d[\text{en_kucuk_sira}]$ ($9 < 1$)
 $\text{en_kucuk_sira} = j;$

Selection Sort

```
#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



j
8

$d[j] < d[\text{en_kucuk_sira}]$ ($10 < 1$)
 $\text{en_kucuk_sira} = j;$

Selection Sort

```
#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



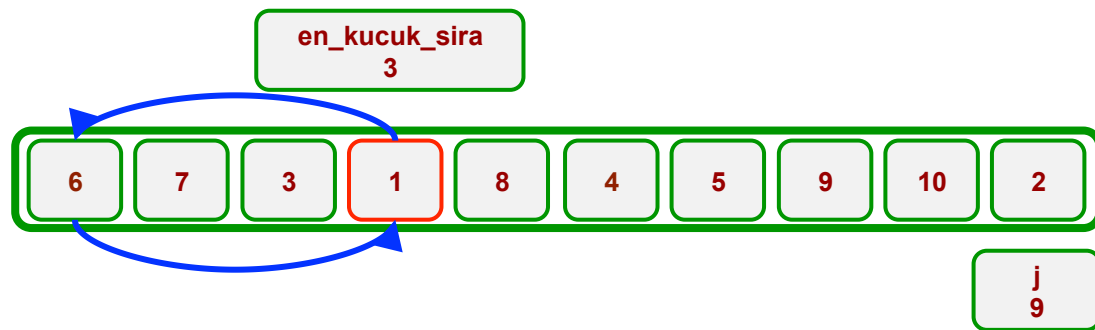
j
9

$d[j] < d[\text{en_kucuk_sira}]$ ($2 < 1$)
 $\text{en_kucuk_sira} = j;$

Selection Sort

```
#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;
}
```

i
0



$d[j] < d[\text{en_kucuk_sira}]$ ($2 < 1$)
 $\text{en_kucuk_sira} = j;$

Selection Sort

```
#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;
}
```

i
0

en_kucuk_sira
3



j
9

$d[j] < d[\text{en_kucuk_sira}]$ ($2 < 1$)
 $\text{en_kucuk_sira} = j;$

Selection Sort

```
#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;
```

```
}
```

i
0

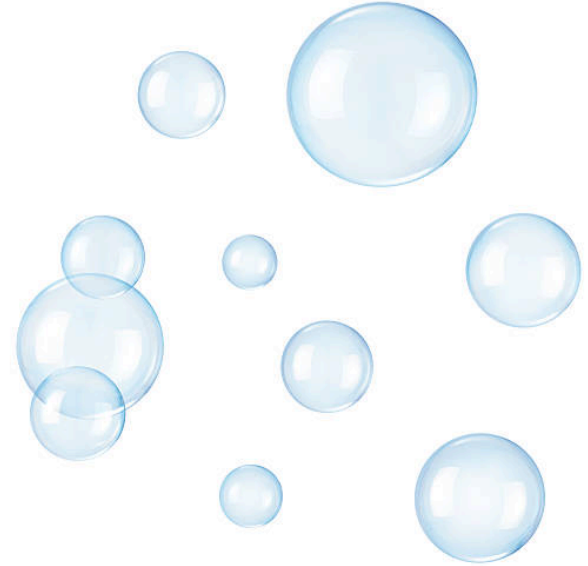
en_kucuk_sira
3



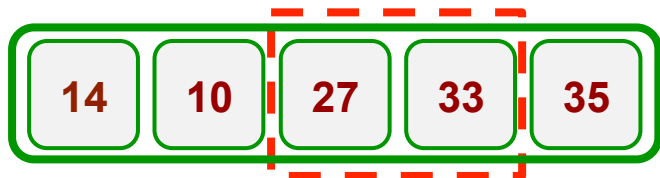
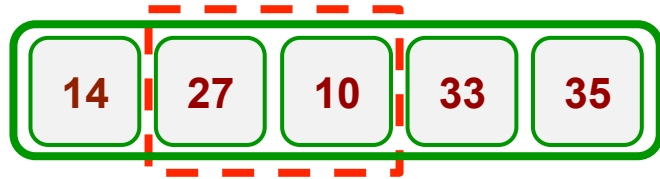
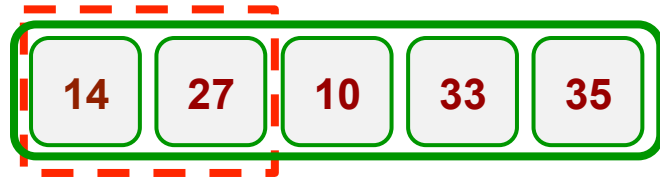
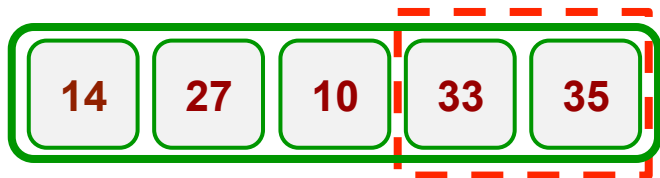
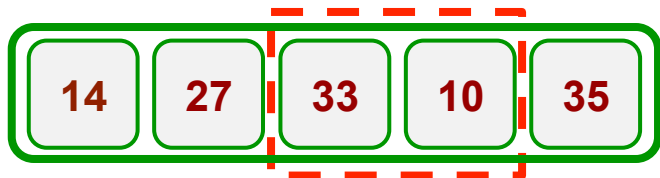
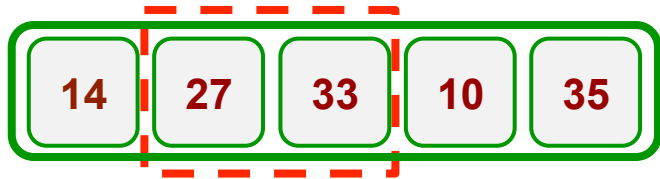
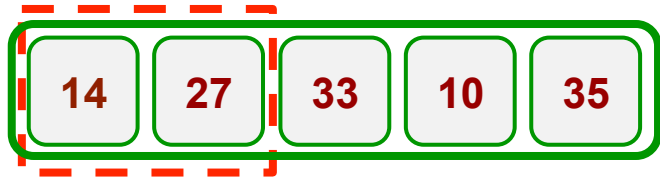
j
9

$d[j] < d[\text{en_kucuk_sira}]$ ($2 < 1$)
 $\text{en_kucuk_sira} = j;$

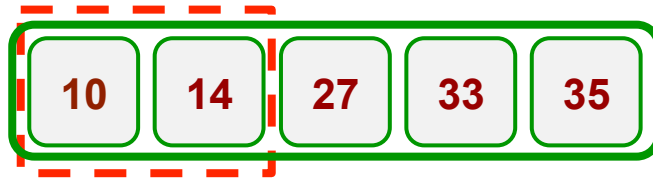
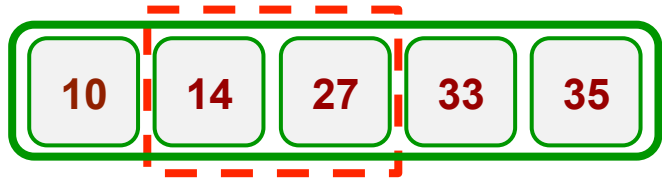
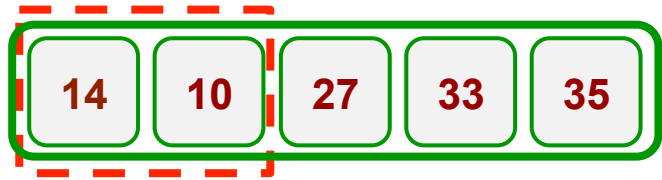
kabarcık sıralama



kabarcık sıralama



kabarcık sıralama



kabarcık sıralama



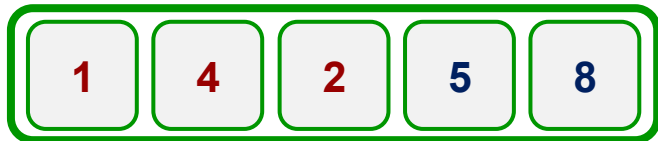
$$5 > 1$$



$$5 > 4$$



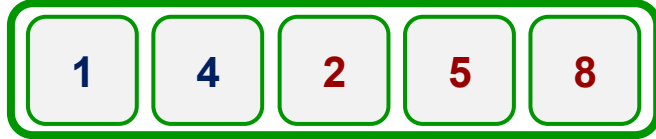
$$5 > 2$$



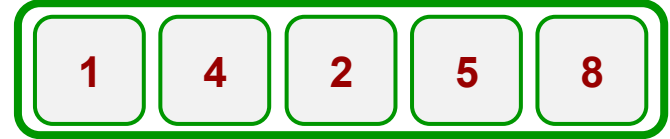
$$5 < 8$$



kabarcık sıralama



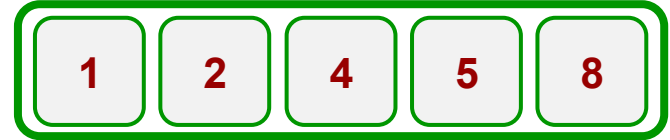
$$1 < 4$$



$$4 > 2$$



$$4 < 5$$



kabarcık sıralama



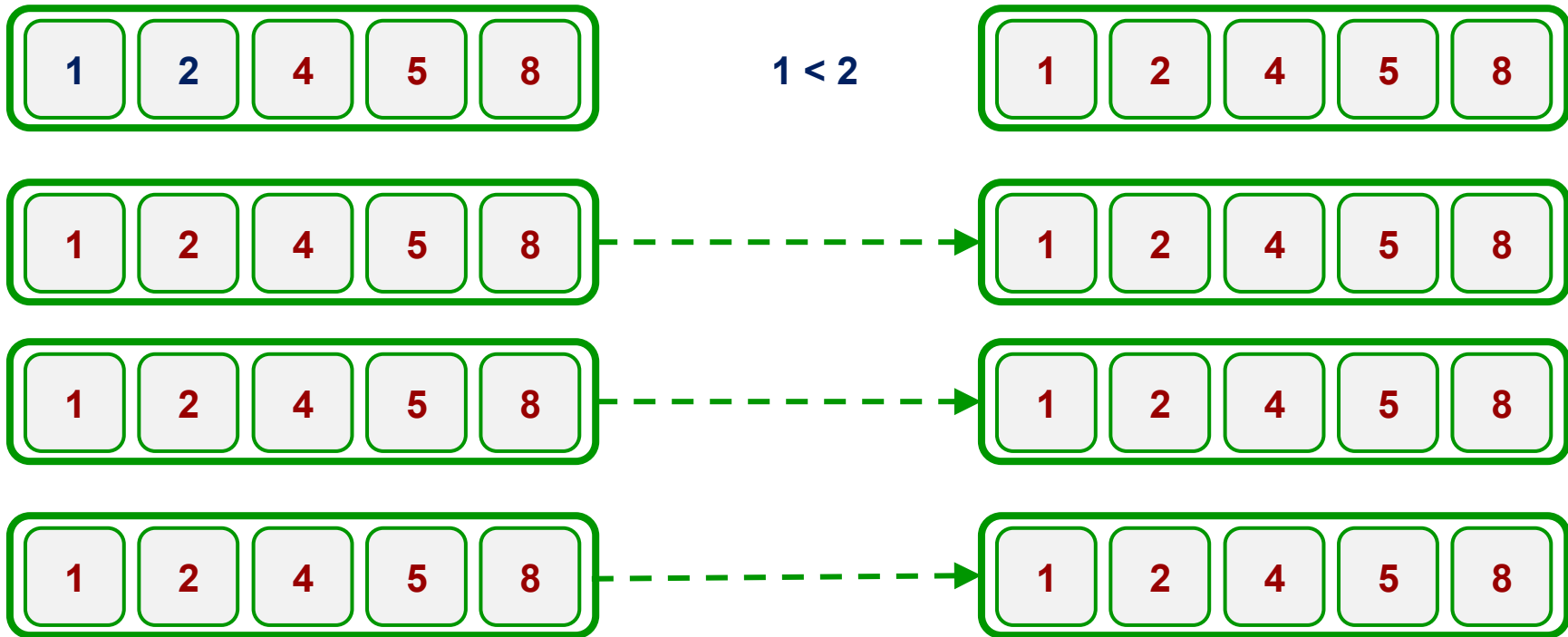
$1 < 2$



$2 < 4$



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]);
printf("\n");
```

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++ ) {
```

```
    }
```

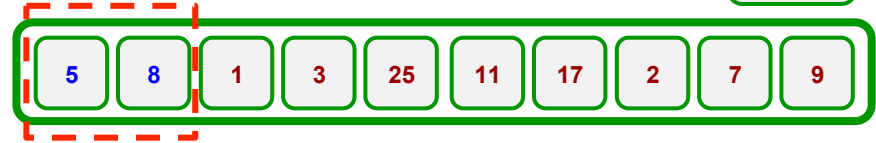
```
    printf("sirali hali:\n");
```

```
    for (i = 0 ; i < 10 ; i++)
```

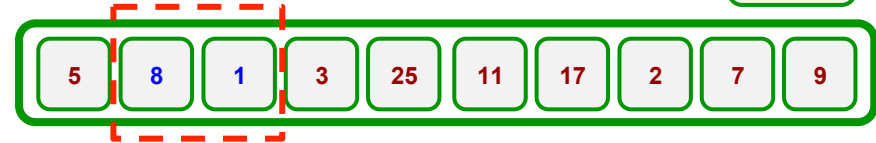
```
        printf("%d ", n[i]);
```

```
    printf("\n");
```

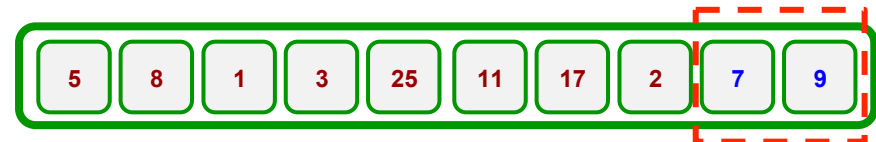
pass
1



pass
2

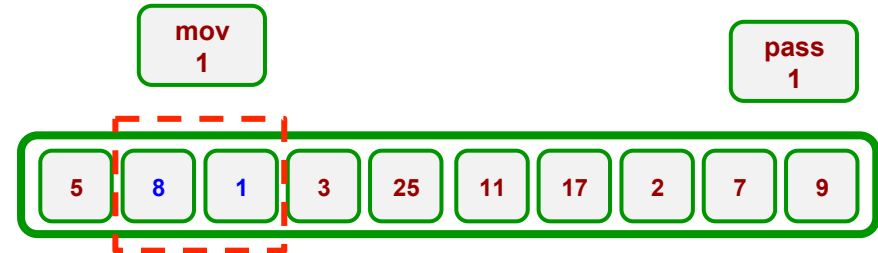
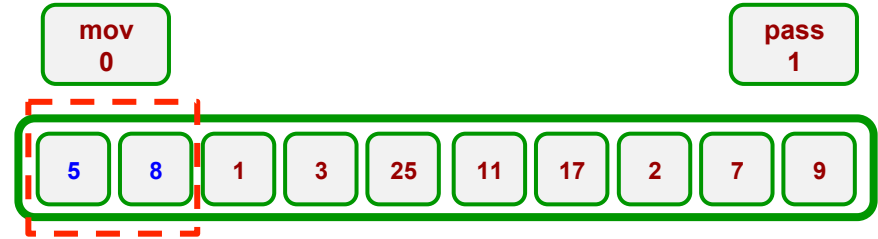


pass
9



kabarcık sıralama

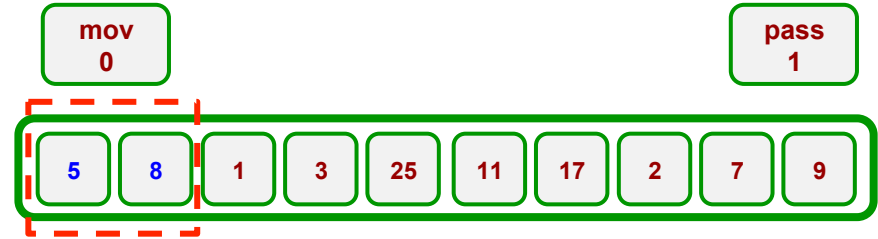
```
#include <stdio.h>
int main() {
    int n[10] = {5, 8, 1, 3, 25, 11, 17, 2, 7, 9};
    int pass, mov;
    int tmp;
    printf("sirasiz hali:\n");
    for (i = 0 ; i < 10 ; i++)
        printf("%d ", n[i]);
    printf("\n");
    for ( pass=1 ; pass < 10 ; pass++ ) {
        for (mov=0; mov < 10-1;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



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

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]);
    printf("\n");
}
```



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] ) {

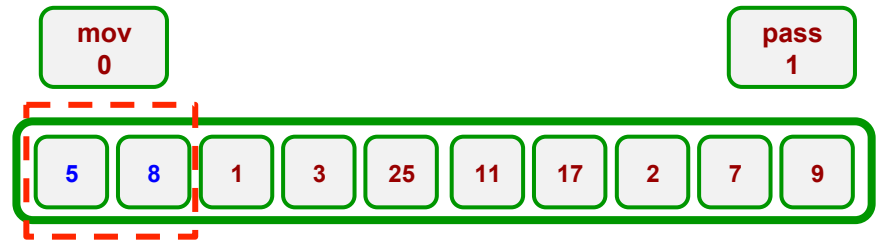
                tmp = n[mov];

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

                n[mov+1] = tmp;

            }

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



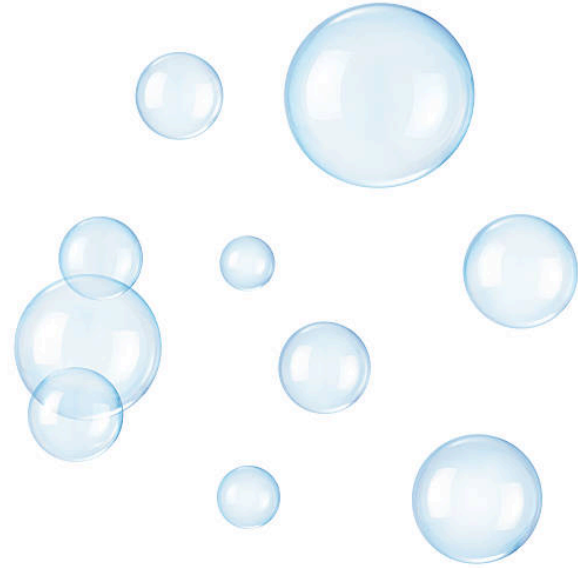
kabarcık sıralama & fonksiyonlar

```
#include <stdio.h>
```

```
int main() {
```

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

```
    return 0;
```



kabarcık sıralama & fonksiyonlar

```
#include <stdio.h>
```

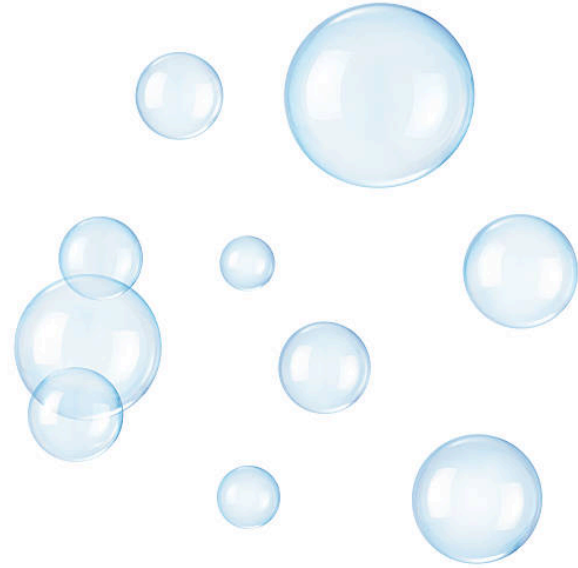
```
int main() {
```

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

```
    int i;
```

```
    bubble_sort(d, 10);
```

```
    return 0;
```



kabarcık sıralama &

```
#include <stdio.h>
```

```
void bubble_sort(int d[], int N) {
```

fonksiyon

```
}
```

```
int main() {
```

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

```
int i;
```

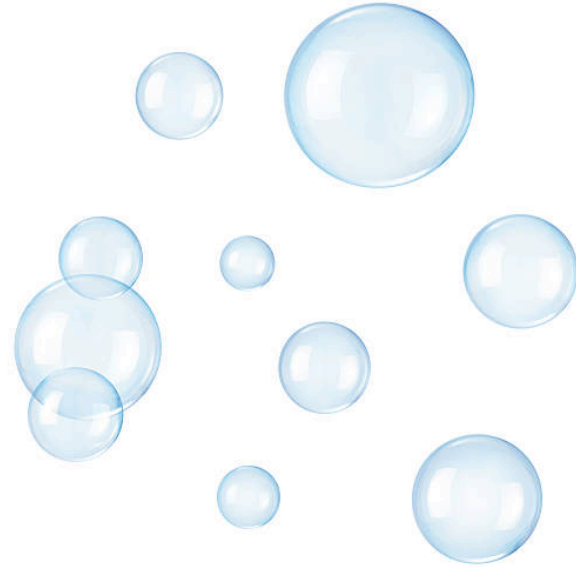
```
bubble_sort(d, 10);
```



kabarcık sıralama & fonksiyonlar

```
#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-pass ; 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 & fonksiyonlar

```
#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 & fonksiyonlar

```
#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]);
    printf("\n");
}
```



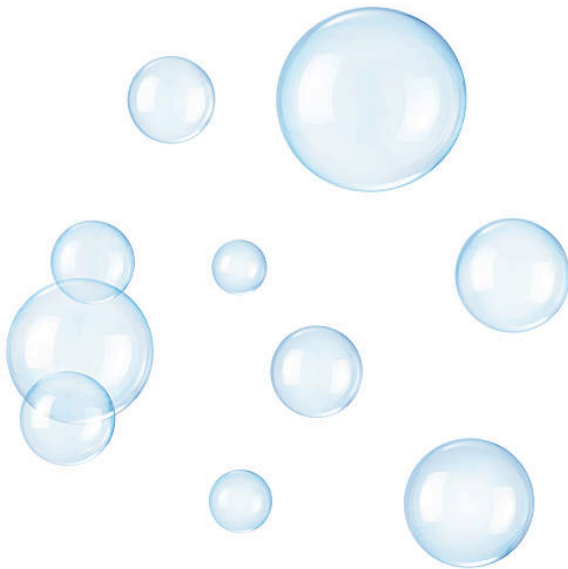
Kabarcık sıralama & arama

```
#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-i; 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 hall:\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

