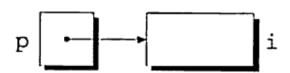
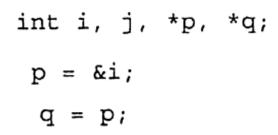
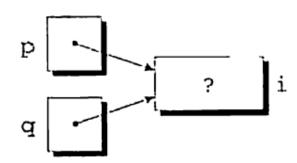
İşaretçiler - Pointers





printf("%d\n", *p);

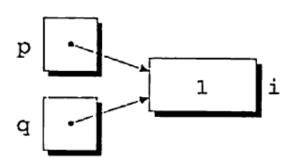




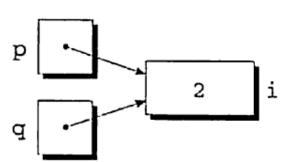
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İşaretçiler - Pointers

$$*p = 1;$$



$$*q = 2;$$



İşaretçiler - Pointers

```
void decompose(double x, long *int_part, double *frac_part)
{
  *int_part = (long) x;
  *frac_part = x - *int_part;
}

decompose(3.14159, &i, &d);
```

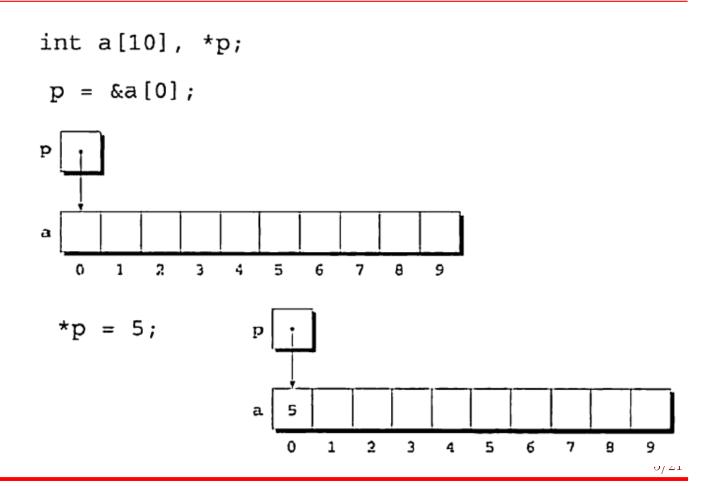
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İşaretçiler - Pointers

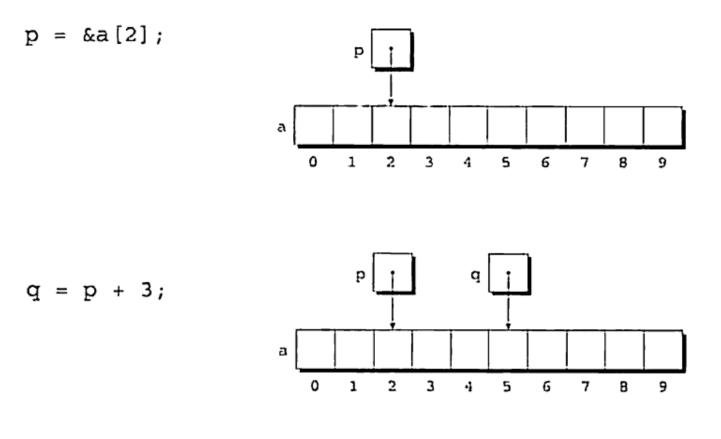
```
int *max(int *a, int *b)
{
   if (*a > *b)
     return a;
   else
     return b;
}

int *p, i, j;
...
   p = max(&i, &j);
```

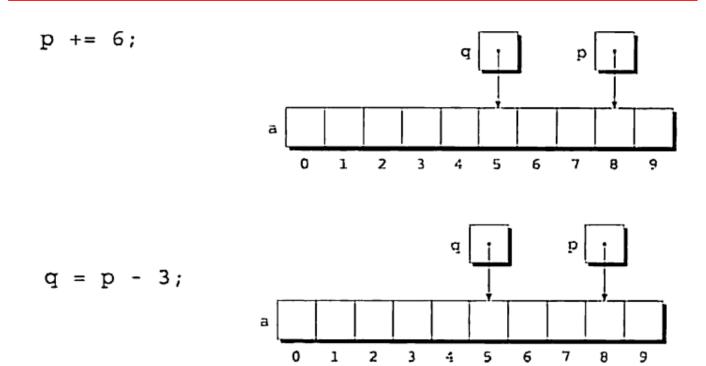
İşaretçiler Diziler



İşaretçiler Diziler

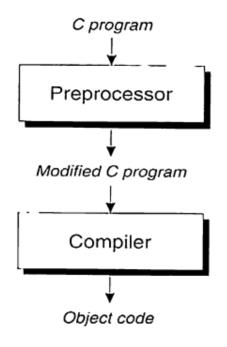


İşaretçiler Diziler



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İşaretçiler Diziler



```
#define STR_LEN 80
#define TRUE 1
#define FALSE 0
#define PI 3.14159

#define BEGIN {
#define END }

#define LOOP for (;;)
```

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Prepocessors

```
#define BOOL int
#define TRUE 1
#define FALSE 0

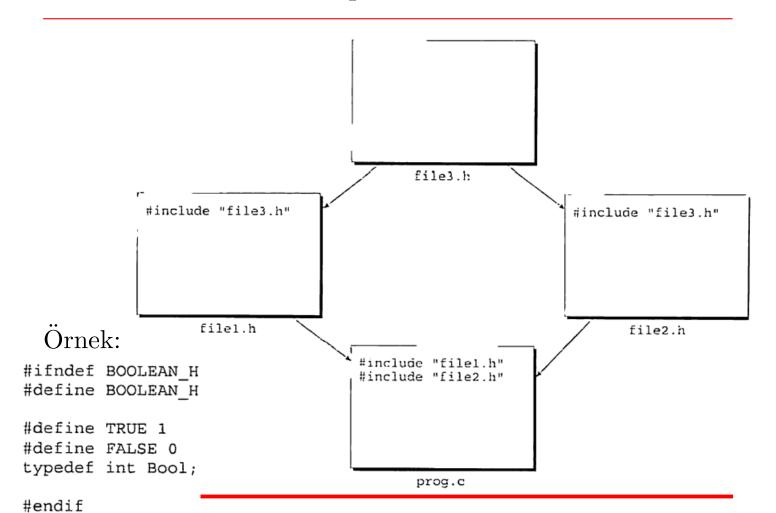
boolean.h

#include "boolean.h"
```

Prepocessors

```
void make_empty(void);
                 int is_empty(void);
int is_full(void);
                 void push(int i);
                 int pop(void);
                          stack.h
#include "stack.h"
                                   #include "stack.h"
int main(void)
                                   int contents[100];
                                   int top = 0;
  make_empty();
                                   void make_empty(void)
{ ... }
                                   int is_empty(void)
        calc.c
                                   int is_full(void)
                                   void push(int i)
{ ... }
                                   int pop(void)
                                           stack.c
                                                                           11/21
```

Prepocessors



Structures

```
struct {
  int number;
  char name[NAME_LEN+1];
  int on_hand;
} part1, part2;

struct {
  int number;
  char name[NAME_LEN+1];
  int on_hand;
} part1 = {528, "Disk drive", 10},
  part2 = {914, "Printer cable", 5};
```

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Structures

```
struct {
  int number;
  char name[NAME_LEN+1];
  int on_hand;
} part1 = {528, "Disk drive", 10},
  part2 = {914, "Printer cable", 5};

printf("Part number: %d\n", part1.number);
printf("Part name: %s\n", part1.name);
printf("Quantity on hand: %d\n", part1.on_hand);
```

Structures

```
struct part {
  int number;
  char name[NAME_LEN+1];
  int on_hand;
};

struct part part1, part2;

part part1, part2; /*** WRONG ***/
```

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Structures

```
typedef struct {
   int number;
   char name[NAME_LEN+1];
   int on_hand;
} Part;

Part part1, part2;
```

Structures

```
void print_part(struct part p)
{
  printf("Part number: %d\n", p.number);
  printf("Part name: %s\n", p.name);
  printf("Quantity on hand: %d\n", p.on_hand);
}

print_part(part1);
```

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Enumerations

```
enum week{Mon, Tue, Wed, Thur, Fri, Sat, Sun};
int main()
{
    enum week day;
    day = Wed;
    printf("%d",day);
    return 0;
}
```

Output:

2

Enumerations

Output:

1 2 5 6 10 11 12

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Enumerations

```
#include <stdio.h>
enum day {sunday = 1, tuesday, wednesday, thursday, friday, saturday};
int main()
{
    enum day d = thursday;
    printf("The day number stored in d is %d", d);
    return 0;
}
```

The day number stored in d is 4

Pointers of Structs

```
struct node {
   int value;
   struct node *next;
};

struct node *new_node;

new_node = malloc(sizeof(struct node));

(*new_node).value = 10;

new_node->value = 10;
```