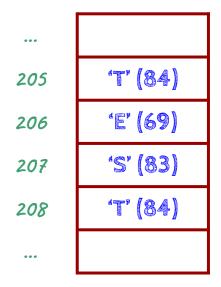




### comulu sistem Lab

char dizi\_a[4] = 
$$\{'T', 'E', 'S', 'T'\}$$



printf("%d", &dizi\_a[2]); 207

int dizi\_b[3] =  $\{100, 500, 1500\}$ ;

sizeof(int) = 4

3 \* sizeof(int)

$$= 3 * 4$$
  
= 12 byte

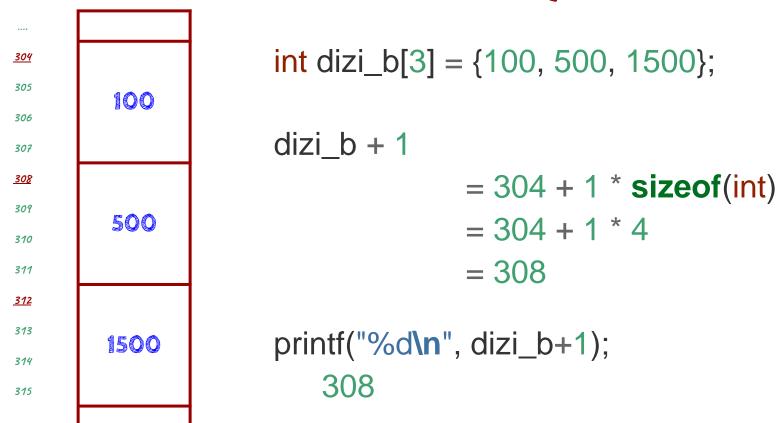
int dizi\_b[3] =  $\{100, 500, 1500\}$ ;

dizi\_b[2]

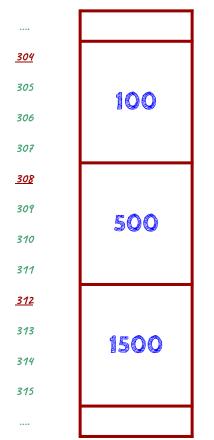
$$= 304 + 2 * 4$$

```
304
                         int dizi_b[3] = \{100, 500, 1500\};
305
         100
306
307
                         printf("%c", dizi_b[2]);
<u> 308</u>
                              1500
309
         500
310
311
                         printf("%d", &dizi_b[2]);
312
313
                              312
         1500
314
315
```

## Diziler & isaretciler



## Diziler & isaretciler



int dizi\_b[3] =  $\{100, 500, 1500\}$ ;

printf("%d\n", \*(dizi\_b+1));
500

## Diziler & isaretciler



int dizi\_b[3] =  $\{100, 500, 1500\}$ ;

x: tamsayi

$$dizi[x] == *(dizi + x);$$

$$\&dizi[x] == (dizi + x);$$



```
#include <stdio.h>
int main() {
                                                                                                                     •••
               printf("char tipinde diziler\n");
               printf("======\\n");
                                                                                                                   205
               char dizi_a[4] = \{'T', 'E', 'S', 'T'\};
                                                                                                                              4EP
                                                                                                                   206
               printf("sizeof(char): %d\n", sizeof(char));
                                                                                                                              45
                                                                                                                   207
               printf("sizeof(dizi_a): %d\n\n", sizeof(dizi_a));
                                                                                                                   208
               printf("ilk elemanin adresi: %u\n", &dizi_a[0]);
               printf("ikinci elemanin adresi: %u\n\n",
&dizi_a[1]);
                                                                                                                     • • •
               printf("%c\n", dizi_a[2]);
               printf("%u\n\n", &dizi_a[2]);
               return 0;
```

```
#include <stdio.h>
int main() {
            printf("sizeof(short) : %d\n",
sizeof(short));
            printf("sizeof(int) : %d\n", sizeof(int));
            printf("sizeof(long) : %d\n",
sizeof(long));
            printf("sizeof(char) : %d\n",
sizeof(char));
            return 0;
```



```
#include <stdio.h>
int main() {
            short a;
            int b;
            long c;
            char d;
            printf("sizeof(a) : %d\n", sizeof(a));
            printf("sizeof(b) : %d\n", sizeof(b));
            printf("sizeof(c) : %d\n", sizeof(c));
            printf("sizeof(d) : %d\n", sizeof(d));
            return 0;
```



```
#include <stdio.h>
int main() {
          int dizi[5];
          int *ptr;
          printf("sizeof(dizi) : %d\n",
          sizeof(dizi));
          printf("sizeof(ptr) : %d\n", sizeof(ptr));
          return 0;
}
```



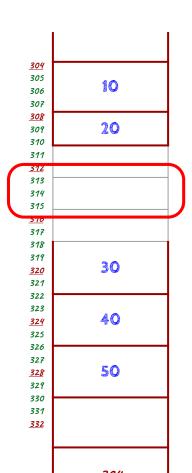


```
#include <stdio.h>
int main() {
  int a=5;
  int * a_ptr = &a;
  printf("a'nin baslangictaki adres degeri: %u\n\n", a_ptr);
  a_ptr++;
  printf("1 eklendikten sonra adres degeri: %u\n\n", a_ptr);
  a_ptr -= 2;
  printf("2 cikarildiktan sonra adres degeri: %u\n\n", a_ptr);
  a_ptr--;
  printf("1 cikarildiktan sonra adres degeri: %u\n\n", a_ptr);
  printf("a'nin 2 sonraki adresi: %u\n", (&a) +2);
                                                                          312 + 2
  printf("a'nin 1 onceki adresi: %u\n", (&a) -1);
                                                                          312 -1
  return 0;
```

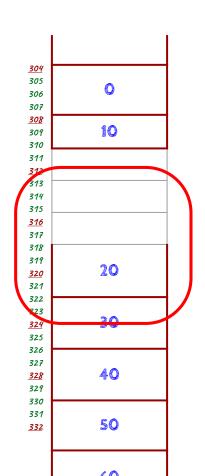
<u>304</u>	
305	?
306	8
307	
<u>308</u>	
309	?
310	
311	
<u>312</u>	
313	
314	
315	
<u>316</u>	
317	
318	
319	pro pro
<u>320</u>	5
321	
322	
323	
<u>324</u>	?
325	
326	
327	
	?
	304



```
#include <stdio.h>
int main() {
int i;
int a[5] = \{10, 20, 30, 40, 50\};
               int *aptr;
                aptr = a;
                // aptr = &a[0]
                // dizinin 2. elemanini yazdiriyoruz
                printf("a[2]: %d\n", a[2]);
                // pointer'in 2 sonraki adresinin degerini yazdiriyoruz
                printf("*(aptr+2): %d\n", *(aptr+2));
                printf("\n");
                // pointer dizi yazim sekliyle kullanilabilir
                printf("aptr[2]: %d\n", aptr[2]);
                // dizi pointer yazim sekliyle kullanilabilir
                printf("*(a+2): %d\n", *(a+2));
                printf("\n");
                // dizinin 2. indexteki elemaninin adresi
                printf("&a[2]: %d\n", &a[2]);
                printf("a+2: %d\n", a+2);
                return 0;
```



```
#include <stdio.h>
void ekrana_yaz(int d[], int N) {
               int i;
               for (i = 0; i < N; i++)
                                printf("%d\n", d[i]);
                printf("\n");
void ekrana_yaz_2(int *d, int N) {
                int i;
               for (i = 0; i < N; i++)
                               printf("%d\n", d[i]);
                printf("\n");
int main() {
                int dizi[7] = \{0, 10, 20, 30, 40, 50, 60\};
                ekrana_yaz(dizi, 2);
                ekrana_yaz_2(dizi, 2);
                ekrana_yaz(&dizi[2], 3);
                ekrana_yaz(dizi+2, 3);
                return 0;
```





```
#include <stdio.h>
void ekrana_yaz_3(int *baslangic, int *son) {
              int * p;
  for (p = baslangic; p <= son; p++)
     printf("%d\n", *p);
  printf("\n");
int main() {
              int dizi[7] = \{0, 10, 20, 30, 40, 50, 60\};
              ekrana_yaz_3(dizi, &dizi[5]);
              ekrana_yaz_3(dizi, &dizi[3]);
              ekrana_yaz_3(dizi, dizi+3);
       return 0;
```



