

안녕 세계 출력하기

```
#include <stdio.h>
int main() {
    printf("hello world!");
    return 0;
}
```

배열 생성

```
#define N 5
int a[N];

int b[5] = {1,2,3,4,5};
int c[] = {1,2,3,4,5};
```

동적 배열

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
    int n;
    printf("요소 개수: ");
    scanf("%d", &n);
    int a[n];
}
```

c언어 변수

정수형	크기
short int	2byte
long int	4byte
unsigned short int	2byte
unsigned long int	4byte
unsigned int	4byte
실수형	
float	4byte
double	8byte
long double	8byte
문자형	
char	1byte
unsigned char	1byte

배열길이

```
int a[5] = {1,2,3,4,5};
int size;

//전체 배열 할당 메모리/첫 요소가 할당된 메모리
size = sizeof(a)/sizeof(a[0]);
printf("배열이 a 요소 개수는 %d 입니다\n", size);

for (int i=0;i<size;i++)
{
    printf("%d\n", a[i]);
}
```

배열 입출력

```
int a[N];
int b[5] = {1,2,3,4,5};

for (int i=0;i<N;i++)
{
    printf("a[%d]: ", i);
    scanf("%d", &a[i]);
    printf("\n");
}

for (int i=0; i<N;i++)
{
    printf("a[%d]: %d\n", i, a[i]);
}
```



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