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#### C언어 스탠디

1일차

#### 오리엔테이션

### 시간. 장소

- 매주 목요일 오후 6-7시 (주 1회, 1시간)
- 정보관 B103호

### 스터디 진행

- 강의
- 예제 풀이
- ・ 질문-답변

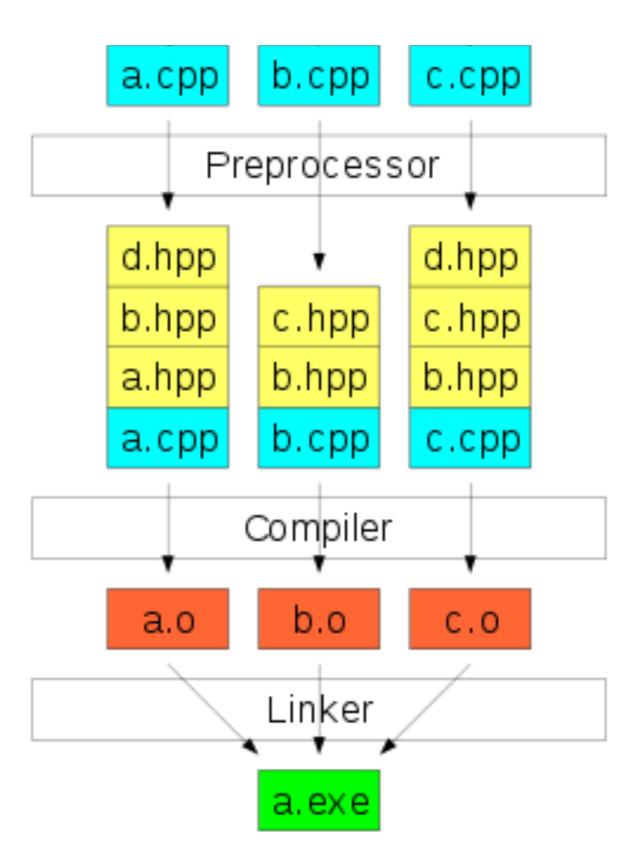
### 시작

```
#include <stdio.h>

int main() {
  printf("안녕!\n");
  return 0;
}
```

안녕!

#### 컴III일 과정



# 프로그램은 순서대로 실행됩니다.

#### 퀴즈: 실행 결과는?

```
int a, b, c;
a = b + c;
b = 1;
c = 2;
printf("%d\n", a);
```

### 변수와 자료형

#### 변수와 자료형

```
int a;
int b = 1;
int c, d, e = 2;
double f = 3.12312;
char g = 'A';
```

```
[변수 자료형] [변수 이름];
[변수 자료형] [변수 이름] = [초기값];
[변수 자료형] [1번째 변수 이름], [2번째 변수 이름];
```

#### 지료 형

타입	설명	크기	표현 범위
char	문자형	1 byte	
int	정수형	4 byte	
unsigned int	부호 없는 정수형	4 byte	
float	실수형	4 byte	
double	실수형	8 byte	

#### 변수명

- 알파벳, 숫자, 언더바(\_)만 사용 가능
- 첫 글자로 숫자가 올 수 없다.
- 예약어는 사용할 수 없다.

#### 연산자

```
int a, b, c;

a = 1;
b = a + 5;
c = 5 + b * 2;
```

• https://ko.wikipedia.org/wiki/C와\_C++에서의\_연산자

#### 입력 받기: scanf

```
scanf("%d %d", &a, &b);
```

### Format String 개초

Character	Description				
%d	정수				
%f	실수				
%c	문자				

#### **AIM** 1

- · 정수 두 개를 입력받아
- · **더한 결과를 출력**하는 프로그램을 작성해봅시다.

정수 두 개를 써라: 5 6

11

```
#include <stdio.h>
int main() {
    int a, b;
    printf("정수 두 개를 써라: ");
    scanf("%d %d", &a, &b);
    int c = a + b;
    printf("%d\n", c);
    return 0;
}
```

#### **GIZII** 2

- · 정수 두 개를 입력받아
- · 첫 번째 수를 두 번째 수로 나는 결과를 출력하는 프로그램을 작성해봅시다.

정수 두 개를 써라: 5 6

11

```
#include <stdio.h>
int main() {
    int a, b;
    printf("정수 두 개를 써라: ");
    scanf("%d %d", &a, &b);
    float c = (float)a / b;
    printf("%d\n", c);
    return 0;
}
```

```
printf("%.2f\n", 5 / 2);
int b = 1.2 * 3;
printf("%d\n", a);
```

2

3

```
int i = 3;
int ii = 3.5;

float f = 3.333;
float ff = 3;

char c = 'A';
char cc = 65;
```

```
float r1 = 3 + 5.7;
float r2 = 5 / 2;
```

```
float r3 = (int)(3 + 5.7);
float r4 = (float)5 / 2;
```

#### **ASCII TABLE**

0	Decimal	Hex C	har	Decimal	Hex C	Char	<sub> </sub> Decimal	Hex C	har	<sub> </sub> Decimal	Hex C	Char
2 2 [START OF TEXT] 34 22 " 66 42 B 98 62 b 3 3 [END OF TEXT] 35 23 # 67 43 C 99 63 c 4	0	0	[NULL]	32	20	[SPACE]	64	40	@	96	60	`
3 3 [END OF TEXT] 35 23 # 67 43 C 99 63 C  4 4 [END OF TRANSMISSION] 36 24 \$ 68 44 D 100 64 d  5 5 [ENQUIRY] 37 25 % 69 45 E 101 65 e  6 6 [ACKNOWLEDGE] 38 26 & 70 46 F 102 66 f  7 7 7 [BELL] 39 27 ' 71 47 G 103 67 g  8 8 8 [BACKSPACE] 40 28 ( 72 48 H 104 68 h  9 9 [HORIZONTAL TAB] 41 29 ) 73 49 I 105 69 i  10 A [LINE FEED] 42 2A * 74 4A J 106 6A j  11 B [VERTICAL TAB] 43 2B + 75 4B K 107 6B k  12 C [FORM FEED] 44 2C , 76 4C L 108 6C I  13 D [CARRIAGE RETURN] 45 2D - 77 4D M 109 6D m  14 E [SHIFT OUT] 46 2E . 78 4E N 110 6E n  15 F [SHIFT INT] 47 2F / 79 4F O 111 6F o  16 10 [DATA LINK ESCAPE] 48 30 0 80 50 P 112 70 p  17 11 [DEVICE CONTROL 1] 49 31 1 81 51 Q 113 71 q  18 12 [DEVICE CONTROL 2] 50 32 2 82 52 R 114 72 r  19 13 [DEVICE CONTROL 3] 51 33 8 83 53 S 115 73 s  20 14 [DEVICE CONTROL 3] 52 34 4 54 T 116 74 t  21 15 [NEGATIVE ACKNOWLEDGE] 53 35 5 85 55 U 117 75 u  22 16 [SYNCHRONOUS IDLE] 54 36 6 88 58 X 120 78 x  25 19 [END OF MEDIUM] 57 39 9 89 59 Y 121 79 y	1	1	[START OF HEADING]	33	21	!	65	41	A	97	61	а
4	2	2	[START OF TEXT]	34	22	II .	66	42	В	98	62	b
5         [ENQUIRY]         37         25         %         69         45         E         101         65         e           6         6         [ACKNOWLEDGE]         38         26         &         70         46         F         102         66         f           7         7         [BELL]         39         27         '         71         47         G         103         67         g           8         8         [BACKSPACE]         40         28         (         72         48         H         104         68         h           9         9         [HORIZONTAL TAB]         41         29         )         73         49         I         105         69         i           10         A         [LINE FEED]         42         2A         *         74         4A         J         106         6A         j           11         B         [VERTICAL TAB]         43         2B         +         75         4B         K         107         6B         k           12         C         [FORM FEED]         44         2C         ,         76         4C         L         108	3	3	[END OF TEXT]	35	23	#	67	43	C	99	63	C
6 6 [ACKNOWLEDGE] 38 26 & 70 46 F 102 66 f 7 7 7 [BELL] 39 27 ' 71 47 G 103 67 g 8 8 [BACKSPACE] 40 28 ( 72 48 H 104 68 h 105 69 i 105 60	4	4	[END OF TRANSMISSION]	36	24	\$	68	44	D	100	64	d
7 7 [BELL] 39 27 ' 71 47 G 103 67 g 8 8 [BACKSPACE] 40 28 ( 72 48 H 104 68 h 9 9 [HORIZONTAL TAB] 41 29 ) 73 49 I 105 69 i 10 A [LINE FEED] 42 2A * 74 4A J 106 6A j 11 B [VERTICAL TAB] 43 2B + 75 4B K 107 6B k 12 C [FORM FEED] 44 2C , 76 4C L 108 6C I 13 D [CARRIAGE RETURN] 45 2D - 77 4D M 109 6D m 14 E [SHIFT OUT] 46 2E . 78 4E N 110 6E n 15 F [SHIFT IN] 47 2F / 79 4F O 111 6F o 16 10 [DATA LINK ESCAPE] 48 30 0 80 50 P 112 70 p 17 11 [DEVICE CONTROL 1] 49 31 1 81 51 Q 113 71 q 18 12 [DEVICE CONTROL 2] 50 32 2 82 52 R 114 72 r 19 13 [DEVICE CONTROL 3] 51 33 3 83 53 S 115 73 s 20 14 [DEVICE CONTROL 4] 52 34 4 84 54 T 116 74 t 21 15 [NEGATIVE ACKNOWLEDGE] 53 35 5 85 55 U 117 75 u 22 16 [SYNCHRONOUS IDLE] 54 36 6 86 56 V 118 76 v 23 17 [ENG OF TRANS. BLOCK] 55 37 7 87 57 W 119 77 w 24 18 [CANCEL] 56 38 8 8 88 58 X 120 78 x 25 19 [END OF MEDIUM] 57 39 9 89 59 Y 121 79 y	5	5	[ENQUIRY]	37	25	%	69	45	E	101	65	е
8       8       [BACKSPACE]       40       28       (       72       48       H       104       68       h         9       9       [HORIZONTAL TAB]       41       29       )       73       49       I       105       69       i         10       A       [LINE FEED]       42       2A       *       74       4A       J       106       6A       j         11       B       [VERTICAL TAB]       43       2B       +       75       4B       K       107       6B       k         12       C       [FORM FEED]       44       2C       ,       76       4C       L       108       6C       I         13       D       [CARRIAGE RETURN]       45       2D       -       77       4D       M       109       6D       m         14       E       [SHIFT OUT]       46       2E       .       78       4E       N       110       6E       n         15       F       [SHIFT IN]       47       2F       /       79       4F       O       111       6F       o         16       10       [DATA LINK ESCAPE]       48 <td>6</td> <td>6</td> <td>[ACKNOWLEDGE]</td> <td>38</td> <td>26</td> <td>&amp;</td> <td>70</td> <td>46</td> <td>F</td> <td>102</td> <td>66</td> <td>f</td>	6	6	[ACKNOWLEDGE]	38	26	&	70	46	F	102	66	f
9 9 [HORIZONTAL TAB] 41 29 ) 73 49 I 105 69 i 10 A [LINE FEED] 42 2A * 74 4A J 106 6A j 11 B [VERTICAL TAB] 43 2B + 75 4B K 107 6B k 12 C [FORM FEED] 44 2C , 76 4C L 108 6C I 13 D [CARRIAGE RETURN] 45 2D - 77 4D M 109 6D m 14 E [SHIFT OUT] 46 2E . 78 4E N 110 6E n 15 F [SHIFT IN] 47 2F / 79 4F 0 111 6F 0 16 10 [DATA LINK ESCAPE] 48 30 0 80 50 P 112 70 p 17 11 [DEVICE CONTROL 1] 49 31 1 81 51 Q 113 71 q 18 12 [DEVICE CONTROL 2] 50 32 2 82 52 R 114 72 r 19 13 [DEVICE CONTROL 3] 51 33 3 83 53 5 115 73 s 20 14 [DEVICE CONTROL 4] 52 34 4 84 54 T 116 74 t 21 15 [NEGATIVE ACKNOWLEDGE] 53 35 5 55 U 117 75 u 22 16 [SYNCHRONOUS IDLE] 54 36 6 86 56 V 118 76 V 23 17 [ENG OF TRANS. BLOCK] 55 37 7 87 57 W 119 77 w 24 18 [CANCEL] 56 38 8 88 88 58 X 120 78 x	7	7	[BELL]	39	27	1	71	47	G	103	67	g
10	8	8	[BACKSPACE]	40	28	(	72	48	н	104	68	ĥ
11       B       [VERTICAL TAB]       43       2B       +       75       4B       K       107       6B       k         12       C       [FORM FEED]       44       2C       ,       76       4C       L       108       6C       I         13       D       [CARRIAGE RETURN]       45       2D       -       77       4D       M       109       6D       m         14       E       [SHIFT OUT]       46       2E       .       78       4E       N       110       6E       n         15       F       [SHIFT IN]       47       2F       /       79       4F       O       111       6F       o         16       10       [DATA LINK ESCAPE]       48       30       O       80       50       P       112       70       p         17       11       [DEVICE CONTROL 1]       49       31       1       81       51       Q       113       71       q         18       12       [DEVICE CONTROL 3]       50       32       2       82       52       R       114       72       r         19       13       [DEVICE CONTROL 4]<	9	9	[HORIZONTAL TAB]	41	29	)	73	49		105	69	i
12       C       [FORM FEED]       44       2C       ,       76       4C       L       108       6C       I         13       D       [CARRIAGE RETURN]       45       2D       -       77       4D       M       109       6D       m         14       E       [SHIFT OUT]       46       2E       .       78       4E       N       110       6E       n         15       F       [SHIFT IN]       47       2F       /       79       4F       O       111       6F       o         16       10       [DATA LINK ESCAPE]       48       30       O       80       50       P       112       70       p         17       11       [DEVICE CONTROL 1]       49       31       1       81       51       Q       113       71       q         18       12       [DEVICE CONTROL 2]       50       32       2       82       52       R       114       72       r         19       13       [DEVICE CONTROL 3]       51       33       3       83       53       S       115       73       s         20       14       [DEVICE CONTRO	10	Α	[LINE FEED]	42	2A	*	74	4A	J	106	6A	j
13       D       [CARRIAGE RETURN]       45       2D       -       77       4D       M       109       6D       m         14       E       [SHIFT OUT]       46       2E       .       78       4E       N       110       6E       n         15       F       [SHIFT IN]       47       2F       /       79       4F       O       111       6F       o         16       10       [DATA LINK ESCAPE]       48       30       O       80       50       P       112       70       p         17       11       [DEVICE CONTROL 1]       49       31       1       81       51       Q       113       71       q         18       12       [DEVICE CONTROL 2]       50       32       2       82       52       R       114       72       r         19       13       [DEVICE CONTROL 3]       51       33       3       83       53       S       115       73       s         20       14       [DEVICE CONTROL 4]       52       34       4       84       54       T       116       74       t         21       15       [NEGAT	11	В	[VERTICAL TAB]	43	2B	+	75	4B	K	107	6B	k
14       E       [SHIFT OUT]       46       2E       .       78       4E       N       110       6E       n         15       F       [SHIFT IN]       47       2F       /       79       4F       O       111       6F       o         16       10       [DATA LINK ESCAPE]       48       30       O       80       50       P       112       70       p         17       11       [DEVICE CONTROL 1]       49       31       1       81       51       Q       113       71       q         18       12       [DEVICE CONTROL 2]       50       32       2       82       52       R       114       72       r         19       13       [DEVICE CONTROL 3]       51       33       3       83       53       S       115       73       s         20       14       [DEVICE CONTROL 4]       52       34       4       84       54       T       116       74       t         21       15       [NEGATIVE ACKNOWLEDGE]       53       35       5       85       55       U       117       75       u         22       16	12	С	[FORM FEED]	44	2C	,	76	4C	L	108	6C	1
15       F       [SHIFT IN]       47       2F       /       79       4F       O       111       6F       o         16       10       [DATA LINK ESCAPE]       48       30       O       80       50       P       112       70       p         17       11       [DEVICE CONTROL 1]       49       31       1       81       51       Q       113       71       q         18       12       [DEVICE CONTROL 2]       50       32       2       82       52       R       114       72       r         19       13       [DEVICE CONTROL 3]       51       33       3       83       53       S       115       73       s         20       14       [DEVICE CONTROL 4]       52       34       4       84       54       T       116       74       t         21       15       [NEGATIVE ACKNOWLEDGE]       53       35       5       85       55       U       117       75       u         22       16       [SYNCHRONOUS IDLE]       54       36       6       86       56       V       118       76       v         23       17	13	D	[CARRIAGE RETURN]	45	2D	-	77	4D	M	109	6D	m
16       10       [DATA LINK ESCAPE]       48       30       0       80       50       P       112       70       p         17       11       [DEVICE CONTROL 1]       49       31       1       81       51       Q       113       71       q         18       12       [DEVICE CONTROL 2]       50       32       2       82       52       R       114       72       r         19       13       [DEVICE CONTROL 3]       51       33       3       83       53       \$       115       73       \$         20       14       [DEVICE CONTROL 4]       52       34       4       84       54       T       116       74       t         21       15       [NEGATIVE ACKNOWLEDGE]       53       35       5       85       55       U       117       75       u         22       16       [SYNCHRONOUS IDLE]       54       36       6       86       56       V       118       76       V         23       17       [ENG OF TRANS. BLOCK]       55       37       7       87       57       W       119       77       w         24 <t< td=""><td>14</td><td>Е</td><td>[SHIFT OUT]</td><td>46</td><td>2E</td><td></td><td>78</td><td>4E</td><td>N</td><td>110</td><td>6E</td><td>n</td></t<>	14	Е	[SHIFT OUT]	46	2E		78	4E	N	110	6E	n
17       11       [DEVICE CONTROL 1]       49       31       1       81       51       Q       113       71       q         18       12       [DEVICE CONTROL 2]       50       32       2       82       52       R       114       72       r         19       13       [DEVICE CONTROL 3]       51       33       3       83       53       S       115       73       s         20       14       [DEVICE CONTROL 4]       52       34       4       84       54       T       116       74       t         21       15       [NEGATIVE ACKNOWLEDGE]       53       35       5       85       55       U       117       75       u         22       16       [SYNCHRONOUS IDLE]       54       36       6       86       56       V       118       76       v         23       17       [ENG OF TRANS. BLOCK]       55       37       7       87       57       W       119       77       w         24       18       [CANCEL]       56       38       8       88       58       X       120       78       x         25       19	15	F	[SHIFT IN]	47	2F	1	79	4F	0	111	6F	0
18     12     [DEVICE CONTROL 2]     50     32     2     82     52     R     114     72     r       19     13     [DEVICE CONTROL 3]     51     33     3     83     53     S     115     73     s       20     14     [DEVICE CONTROL 4]     52     34     4     84     54     T     116     74     t       21     15     [NEGATIVE ACKNOWLEDGE]     53     35     5     85     55     U     117     75     u       22     16     [SYNCHRONOUS IDLE]     54     36     6     86     56     V     118     76     v       23     17     [ENG OF TRANS. BLOCK]     55     37     7     87     57     W     119     77     w       24     18     [CANCEL]     56     38     8     88     58     X     120     78     x       25     19     [END OF MEDIUM]     57     39     9     89     59     Y     121     79     y	16	10	[DATA LINK ESCAPE]	48	30	0	80	50	P	112	70	р
19       13       [DEVICE CONTROL 3]       51       33       3       83       53       5       115       73       s         20       14       [DEVICE CONTROL 4]       52       34       4       84       54       T       116       74       t         21       15       [NEGATIVE ACKNOWLEDGE]       53       35       5       85       55       U       117       75       u         22       16       [SYNCHRONOUS IDLE]       54       36       6       86       56       V       118       76       v         23       17       [ENG OF TRANS. BLOCK]       55       37       7       87       57       W       119       77       w         24       18       [CANCEL]       56       38       8       88       58       X       120       78       X         25       19       [END OF MEDIUM]       57       39       9       89       59       Y       121       79       y	17	11	[DEVICE CONTROL 1]	49	31	1	81	51	Q	113	71	q
20       14       [DEVICE CONTROL 4]       52       34       4       84       54       T       116       74       t         21       15       [NEGATIVE ACKNOWLEDGE]       53       35       5       85       55       U       117       75       u         22       16       [SYNCHRONOUS IDLE]       54       36       6       86       56       V       118       76       v         23       17       [ENG OF TRANS. BLOCK]       55       37       7       87       57       W       119       77       w         24       18       [CANCEL]       56       38       8       88       58       X       120       78       x         25       19       [END OF MEDIUM]       57       39       9       89       59       Y       121       79       y	18	12	[DEVICE CONTROL 2]	50	32	2	82	52	R	114	72	r
21       15       [NEGATIVE ACKNOWLEDGE]       53       35       5       85       55       U       117       75       u         22       16       [SYNCHRONOUS IDLE]       54       36       6       86       56       V       118       76       v         23       17       [ENG OF TRANS. BLOCK]       55       37       7       87       57       W       119       77       w         24       18       [CANCEL]       56       38       8       88       58       X       120       78       x         25       19       [END OF MEDIUM]       57       39       9       89       59       Y       121       79       y	19	13	[DEVICE CONTROL 3]	51	33	3	83	53	S	115	73	S
22       16 [SYNCHRONOUS IDLE]       54       36       6       86       56       V       118       76       v         23       17 [ENG OF TRANS. BLOCK]       55       37       7       87       57       W       119       77       w         24       18 [CANCEL]       56       38       8       88       58       X       120       78       x         25       19 [END OF MEDIUM]       57       39       9       89       59       Y       121       79       y	20	14	[DEVICE CONTROL 4]	52	34	4	84	54	т	116	74	t
23       17       [ENG OF TRANS. BLOCK]       55       37       7       87       57       W       119       77       w         24       18       [CANCEL]       56       38       8       88       58       X       120       78       x         25       19       [END OF MEDIUM]       57       39       9       89       59       Y       121       79       y	21	15	[NEGATIVE ACKNOWLEDGE]	53	35	5	85	55	U	117	75	u
24     18 [CANCEL]     56     38     8     88     58     X     120     78     x       25     19 [END OF MEDIUM]     57     39     9     89     59     Y     121     79     y	22	16	[SYNCHRONOUS IDLE]	54	36	6	86	56	V	118	76	V
25 19 [END OF MEDIUM] 57 39 9 89 59 Y 121 79 y	23	17	[ENG OF TRANS. BLOCK]	55	37	7	87	57	W	119	77	w
	24	18	[CANCEL]	56	38	8	88	58	X	120	78	X
l l	25	19	[END OF MEDIUM]	57	39	9	89	59	Y	121	79	У
26 1A [SUBSTITUTE] 58 3A : 90 5A Z 122 7A z	26	1A	[SUBSTITUTE]	58	3A	:	90	5A	Z	122	7A	Z
27 1B [ESCAPE] 59 3B ; 91 5B [ 123 7B {	27	1B	[ESCAPE]	59	3B	;	91	5B	[	123	7B	{
28 1C [FILE SEPARATOR] 60 3C < 92 5C \ 124 7C	28	1C	[FILE SEPARATOR]	60	3C	<	92	5C	\	124	7C	Ī
29 1D [GROUP SEPARATOR] 61 3D = 93 5D ] 125 7D }	29	1D	[GROUP SEPARATOR]	61	3D	=	93	5D	1	125	7D	}
30	30	1E	[RECORD SEPARATOR]	62	3E	>	94	5E	^	126	7E	~
31 1F [UNIT SEPARATOR] 63 3F ? 95 5F _ 127 7F [DEL]	31	1F	[UNIT SEPARATOR]	63	3F	?	95	5F	_	127	7F	[DEL]

### **=**.