

Туре	Size	Range	Format specifier	Example
char	1 byte	-128 to +127	%с	'a' , 'A'
unsigned char	1 byte —	→ 0 to 255	%с	'a' , 'A'
int	2 byte	-32768 to +32767	/ (%d)	-25, 5, 0, -5
unsigned int	2 bytes	0 to 65535	%u	254, 36777
long int	4 bytes	-2147483648 to +2147483647	%ld	45I, -5I, 5000I
unsigned long	4 bytes	0 to 4294967295	%lu	1000l, 20000l
float	4 bytes	±3.4*10 ^{±38}	%f	-3.5f ,125.13f
double	8 bytes	±1.7*10 ^{±308}	%If	-125.25 , 270.6
long double	10 bytes	±3.4*10 ^{±4932}	%Lf	-330.45L, -1.2L

2-1-256-1-25
0-255
$\frac{256}{2} = -128$
255-124-2127

int
$$v1 = 10$$
;
int $v2 = 20$;
int $v3 = 30$;
int $v4 = 40$;
int $v5 = 50$;
Single Array to store all values

40

50

Multiple variables to store each value

```
#include <stdio.h>
                                              Output
Void main()
{
                                                  The array element are:
Int array [ ] ={1,2,3,4,5}
                                                       Array[0] = 1
Int ii, n=5;
                                                       Array[1] = 2
Printf ("the array element are :\n");
                                                       Array[2] = 3
For(i=0; i<n; i++)
                                                       Array[3] = 4
                                                       Array[4] = 5
Printf ("array[%d] =%d /n",I, array[i]);
}
```

int x[3][3	3]; Col_1	Col_2	Col_3		
Row_1	x[0][0]	x[0][1]	x[0][2]		
Row_2	x[1][0]	x[1][1]	x[1][2]		
Row_3	x[2][0]	x[2][1]	x[2][2]		

				7	123		49	50	9				
b ₇ b ₆ .				° ° °	٥ ،	0 0	01	00	0,	1 _{1 0}	1 _{1 1}		
Bits		b₃ ↓	b₂	Б ¯→	Column	0	1	2	3	4	5	6	7
	0	0	0	0	0	NUL	DLE	SP	0	(Q)	Р) (р
	0	0	0	-	1	SOH	DCI	!		A	Q	0	q
	0	0	-	0	2	STX	DC2	"	2	B	R	b	r
	0	0	-	1	3	ETX	DC3	#	3	С	S	С	s
	0	1	0	0	4	EOT	DC4	\$	4	D	Т	d	t
	0	1	0	1	5	ENQ	NAK	%	5	Ε	U	е	u
	0	1	1	0	6	ACK	SYN	8.	6	F	٧	f	٧
	0	1	1	1	7	BEL	ETB	,	7	G	W	g	w
	1	0	0	0	8	BS	CAN	(8	Н	×	h	x
	1	0	0	1	9	HT	EM)	9	I	Y	i	У
	ı	0	1	0	10	LF	SUB	*	:	J	Z	j	z
	ı	0	1	ı	11	VT	ESC	+	;	K	[k	{
	1	1	0	0	12	FF	FS	,	<	L	1	1	
	ı	1	0	ı	13	CR	GS	_	=	М]	m	}
	1	1	-	0	14	so	RS	•	>	N	^	n	~
	1	1	1	ı	15	SI	US	/	?	0		0	DEL
1													









