

ASCII Table

```

1 #include <stdio.h>
2
3 int main() {
4     char capital_a = 'A';
5     char sixty_five = 65;
6
7     printf("capital_a: %c %d\n", capital_a, capital_a);
8     printf("sixty_five: %c %d\n", sixty_five, sixty_five);
9 }

```

```

$ gcc bits.c -o bits
$ ./bits
capital_a: A 65
sixty_five: A 65

```

Dec	Char	Dec	Char	Dec	Char	Dec	Char
0	NUL	32	<space>	64	@	96	`
1	SOH	33	!	65	A	97	a
2	STX	34	"	66	B	98	b
3	ETX	35	#	67	C	99	c
4	EOT	36	\$	68	D	100	d
5	ENQ	37	%	69	E	101	e
6	ACK	38	&	70	F	102	f
7	BEL	39	'	71	G	103	g
8	BS	40	(	72	H	104	h
9	TAB	41	)	73	I	105	i
10	LF	42	*	74	J	106	j
11	VT	43	+	75	K	107	k
12	FF	44	,	76	L	108	l
13	CR	45	-	77	M	109	m
14	SO	46	.	78	N	110	n
15	SI	47	/	79	O	111	o
16	DLE	48	0	80	P	112	p
17	DC1	49	1	81	Q	113	q
18	DC2	50	2	82	R	114	r
19	DC3	51	3	83	S	115	s
20	DC4	52	4	84	T	116	t
21	NAK	53	5	85	U	117	u
22	SYN	54	6	86	V	118	v
23	ETB	55	7	87	W	119	w
24	CAN	56	8	88	X	120	x
25	EM	57	9	89	Y	121	y
26	SUB	58	:	90	Z	122	z
27	ESC	59	;	91	[	123	{
28	FS	60	<	92	\	124	|
29	GS	61	=	93	]	125	}
30	RS	62	>	94	^	126	~
31	US	63	?	95	_	127	DEL

```

1 #include <stdio.h>
2
3 void uppercase(char str[]) {
4
5
6
7
8
9
10
11
12
13
14
15 }
16
17 void inspect(char str[]) {
18     for (int i = 0; str[i] != '\0'; i++) {
19         char c = str[i];
20         printf("(%c %d) ", c, c);
21     }
22     printf("\n");
23 }
24
25 int main() {
26     char message[] = "Hello!";
27     printf("%s\n", message);
28     printf("(%c %d) (%c %d) (%c %d) (%c %d) (%c %d) (%c %d) (%c %d)\n",
29         message[0], message[0],
30         message[1], message[1],
31         message[2], message[2],
32         message[3], message[3],
33         message[4], message[4],
34         message[5], message[5],
35         message[6], message[6]);
36     inspect(message);
37
38     // After this call, message should contain "HELLO!"
39     uppercase(message);
40     printf("After uppercase: %s\n", message);
41 }

```

```

$ gcc hello.c -o hello
$ ./hello
Hello!
(H 72) (e 101) (l 108) (l 108) (o 111) (! 33) ( 0)
(H 72) (e 101) (l 108) (l 108) (o 111) (! 33)
After uppercase: HELLO!

```