Reference

Simple C programs have the form directives

```
#include <stdio.h>
int main(void)
{
    statements
}
```

I/O functions

Data Types:

int	short for integer
float	short for floatingpoint
char	character
%d	works only for int variables
%f	works only for float variables
%с	works only for char variables

Arithmetic operators:

+	addition
-	subtraction
*	multiplication
/	division
%	remainder

```
if ( expression )
    statement
else if ( expression )
    statement
    ...
else if ( expression )
    statement
else
    statement
while ( expression )
    statement
```

```
do
statement
while ( expression );

for ( expr1; expr2; expr3)
statement
```

ASCII CODE:

Deci	imal Hex	Char	Decimal	Hex	Char	Decimal	Hex	Char	Decimal	Hex	Char
0	0	[NULL]	32	20	[SPACE]	64	40	@	96	60	
1	1	(START OF HEADING)	33	21	1	65	41	A	97	61	a
2	2	[START OF TEXT]	34	22	-	66	42	В	98	62	b
3	3	(END OF TEXT)	35	23	#	67	43	С	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	(BELL)	39	27		71	47	G	103	67	g
8	8	(BACKSPACE)	40	28	(72	48	н	104	68	h
9	9	(HORIZONTAL TAB)	41	29)	73	49	1	105	69	i
10	A	(LINE FEED)	42	2A		74	4A	J	106	6A	j
11	В	[VERTICAL TAB]	43	28	+	75	4B	K	107	6B	k
12	C	[FORM FEED]	44	2C		76	4C	L	108	6C	1
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	1	79	4F	0	111	6F	0
16	10	(DATA LINK ESCAPE)	48	30	0	80	50	P	112	70	р
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	[END OF MEDIUM]	57	39	9	89	59	Y	121	79	У
26	1A	(SUBSTITUTE)	58	3A	:	90	5A	Z	122	7A	z
27	1B	(ESCAPE)	59	3B	;	91	5B	1	123	7B	{
28	1C	(FILE SEPARATOR)	60	3C	<	92	5C	1	124	7C	Ĭ.
29	1D	[GROUP SEPARATOR]	61	3D	=	93	5D	1	125	7D	}
30	1E	[RECORD SEPARATOR]	62	3E	>	94	5E	^	126	7E	~
31	1F	[UNIT SEPARATOR]	63	3F	?	95	5F	_	127	7F	(DEL)

String Array: