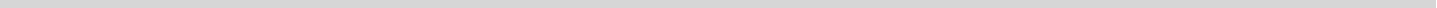


# Code Translation

## Characters With Binary Value

Character	ASCII Decimal	Binary (7-bit)
#	35	0100011
i	105	1101001
n	110	1101110
c	99	1100011
l	108	1101100
u	117	1110101
d	100	1100100
e	101	1100101
SP	32	0100000
<	60	0111100
s	115	1110011
t	116	1110100
o	111	1101111
.	46	0101110
h	104	1101000
>	62	0111110
\n	10	0001010
j	106	1101010
m	109	1101101
a	97	1100001
(	40	0101000

Character	ASCII Decimal	Binary (7-bit)
)	41	0101001
{	123	1111011
p	112	1110000
r	114	1110010
f	102	1100110
"	34	0100010
,	44	0101100
w	119	1110111
;	59	0111011
0	48	0110000
}	125	1111101



# Program Translated into Binary Code

```
# include <stdio.h>

int main( ) {
    printf( "hello, world\n" );
    return 0;
}
```



# Seprate Code

## C Code

```
#include <stdio.h>

int main() {

    printf("hello, world\n");

    return 0;
}
```

## Binary Code

```
0100011 1101001 1101110 1101110 1100011 1110101 1110101 1100101 0100000 0111100 1110011
1101001 1101110 1110100 0100000 1101101 1100001 1101001 1101110 0101000 0101001 1111011
1110000 1110010 1101001 1101110 1110100 1100110 0101000 0100010 1101000 1100101 1100011
1110010 1100101 1110100 1110101 1110010 1101110 0110000 0111011
1111101
```

## Difference

C Code	Binary Equivalent
#include <stdio.h>	0100011 1101001 1101110 1101110 1100011 1110101 1110101 1100101 0100000 0111100 1110011 1110100 1100100 1101001 1101111 0101110 1101000 0111110 0001010
int main() {	1101001 1101110 1110100 0100000 1101101 1100001 1101001 1101110 0101000 0101001 1111011 0001010
printf("hello, world\n");	1110000 1110010 1101001 1101110 1110100 1100110 0101000 0100010 1101000 1100101 1100011 1100011 1101111 0101100 0100000 1110111 1101111 1110010 1100011 1100100 0001010 0100010 0101001 0111011

C Code	Binary Equivalent
return 0;	1110010 1100101 1110100 1110101 1110010 1101110 0110000 0111011
}	1111101

---