

9/10/15 Pre-Class Work

* Required

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me

Please indicate which course you are taking. *

- CS61 (College)
- CSCIE-61 (Extension)

Hexadecimal and Binary

Convert decimal 10 to binary. *

1010

Convert decimal 210 to binary. *

11010010

Convert decimal 127 to binary. *

1111111

Convert binary 0111000010101101 to hexadecimal *

Make sure your answer starts with 0x

0x70AD

Convert binary 1111111111111111 to hexadecimal *

0xFFFF

Convert binary 11010111000011 to hexadecimal *

0x35C3

Convert binary 11111111 to decimal. *

255

Convert binary 01011010 to decimal. *

90

$$2 + 8 + 16 + 64 = 90$$

Convert binary 11011110 to decimal. *

222

$$2 + 4 + 8 + 16 + 64 + 128$$

Convert the 0xAB into binary. *

1010 1011

Convert the 0x85 into binary. *

1000 0101

Convert the 0xCD into binary. *

1100 1101

*Technically
neither, but
certainly not
a definition*

Data Representation

For each C statement, decide whether it is a definition or a declaration. *

	Definition	Declaration
int i;	<input checked="" type="checkbox"/>	<input type="checkbox"/>
char a[52];	<input checked="" type="checkbox"/>	<input type="checkbox"/>
extern unsigned long x;	<input type="checkbox"/>	<input checked="" type="checkbox"/>
typedef struct _meta meta;	<input type="checkbox"/>	<input type="checkbox"/>
struct _meta { int x; };	<input type="checkbox"/>	<input checked="" type="checkbox"/>
struct _meta {int x; } m;	<input checked="" type="checkbox"/>	<input type="checkbox"/>
struct _meta m;	<input checked="" type="checkbox"/>	<input type="checkbox"/>
void my_func(void);	<input type="checkbox"/>	<input checked="" type="checkbox"/>
int main(int argc, char *argv[]);	<input type="checkbox"/>	<input checked="" type="checkbox"/>
int run(int a, int b) { return(a+b);}	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Pointer Arithmetic

For each question below, select the answer to which each C expression evaluates.

```
#include <stdio.h>
#include <stdlib.h>
#include "hexdump.h"
```

```
int
main(void)
```

```
{  
  char *carray = malloc(10);  
  int iarray[10];  
}
```

`printf("%zu\n", &carray[8] - &carray[6]); *`

1

2

4

8

`printf("%zu\n", &iarray[8] - &iarray[6]); *`

1

2

4

8

`(&carray[6] - &carray[2]) == (&iarray[4] - iarray) *`

True (non-zero)

False (0)

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