

Review Test

> 20190910

1 What's the binary number of decimal number 13?

2 Write output of the program below.

(Let's assume i's address is [5000], j's address is [4996], and ip's address is [4992].)

```
#include <stdio.h>

int main()
{
    int i;
    int j;
    i = 2;
    j = i;
    int* ip; // * symbol to declare pointer
    ip = &i;
    printf("%x, %x, %x, %i\r\n", &i, ip, &ip, *ip); // contents-of
}
```

3 Fix all the problems of the program below.

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

void MyAlloc(int* jp, unsigned int size_) {
    jp = (int*)malloc(size_);
}

int main()
{
    //int* jp = (int*)malloc(sizeof(int) * 10);
    int* jp = nullptr;
    MyAlloc(jp, sizeof(int) * 10);

    int d = 1;
    for (int i = 0; i < 10; ++i)
    {
        jp[i] = d;
        d += 2;
    }
    printf("%i,%i\n", jp[0], jp[9]);

    return 0;
}
@
```