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### HW #3

#### 1: Reading and printing signed numbers

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

int main()
{
    signed int number = 0;
    while(1){
        printf("Enter signed number with +/-: \n");
        scanf("%d", &number);
        printf("Number: %d\n", number);
    }

    return 0;
}
```

#### 2: Math problem generator

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

int main()
{
    int number1 = 0, number2 = 0, answer = 0;
    while(1){

        time_t t;
        /* Intializes random number generator */
        srand((unsigned) time(&t));

        number1 = rand() % 99;
        number2 = rand() % 99;
        printf("What is the sume of %d and %d? \n", number1, number2);
        scanf("%d", &answer);
        if(answer == number1 + number2){
            printf("Correct!\n");
        }
    }
}
```

```

    else{
        printf("No, the answer is %d \n", number1 + number2);
    }
}

return 0;
}

```

### 3:Math problem with answer tracking

```

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

int main()
{
    int i = 0;

    int number1 = 0, number2 = 0, answer = 0;
    while(1){
        int numCorrect = 0;

        for(i=0;i<10;i++){

            time_t t;
            /* Intializes random number generator */
            srand((unsigned) time(&t));

            number1 = rand() % 99;
            number2 = rand() % 99;
            printf("What is the sume of %d and %d? \n", number1, number2);
            scanf("%d", &answer);
            if(answer == number1 + number2){
                printf("Correct!\n");
                numCorrect++;
            }
            else{
                printf("No, the answer is %d \n", number1 + number2);
            }
        }

        printf("You got %d correct out of 10!\n\n", numCorrect);

    }

    return 0;
}

```

```
}
```

#### 4: Switch Statement

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

int main()
{

    int number = 0;
    printf("Please enter 1,2,3, or 4\n");
    scanf("%d", &number);
    switch(number){
        case 1 :
            printf("One \n");
            break;

        case 2 :
            printf("Two \n");
            break;

        case 3 :
            printf("Three \n");
            break;

        case 4 :
            printf("Four \n");
            break;

        default :
            printf("Invalid option \n");
    }

    return 0;
}
```

Tutorial I used:

[http://www.tutorialspoint.com/cprogramming/switch\\_statement\\_in\\_c.htm](http://www.tutorialspoint.com/cprogramming/switch_statement_in_c.htm)