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

int main()
{
    int num = 65;

    printf("%d\n", num);
    printf("%4d\n", num);
    printf("%x\n", num);
    printf("%c\n", num);
}
```

```
C:\Users\srivk>gcc C:\Users\srivk\OneDrive\Desktop\UNB\Summer2020\CS2263\Lectures\Week1\Day2_May5\nextDay1.c -o test1
C:\Users\srivk>test1
65
65
41
101
A
```

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

int main()
{
    char ch = 'b';
    int num = 11;
    float num1 = 14.567;
    double num2 = 10.0;

    printf("The size of the character is %d\n", sizeof(ch));
    printf("The size of the int is %d\n", sizeof(num));
    printf("The size of the float is %d\n", sizeof(num1));
    printf("The size of the double is %d\n", sizeof(num2));
}
```

```
C:\Users\srivk>gcc C:\Users\srivk\OneDrive\Desktop\UNB\Summer2020\CS2263\Lectures\Week1\Day2_May5\nextDay2.c -o test2

C:\Users\srivk>test2

The size of the character is 1

The size of the int is 4

The size of the float is 4

The size of the double is 8
```

These numbers are the amount of memory allocated to that datatype.

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

int main()
{
    printf("The minimum value of int is: %d\n", INT_MIN);
    printf("The maximum value of int is: %d\n", INT_MAX);
}
```

```
C:\Users\srivk>gcc C:\Users\srivk\OneDrive\Desktop\UNB\Summer2020\CS2263\Lectures\Week1\Day2_May5\nextDay3.c -o test

C:\Users\srivk>test
The minimum value of int is: -2147483648
The maximum value of int is: 2147483647
```

playStack.c

```
// first.c
#include <stdio.h>
#include <stdlib.h>
#define MAX 256
#define PUSH 1
#define POP 0
#define LIST 2
int main(int argc, char* argv[])
    int count = 0;
   int i;
    int stack[MAX];
    int size = 0;
   int val;
    int iChoice;
   int iNRead;
 /* Processing loop */
  printf("Choice (1=add, 0=remove, 2=list): ");
 iNRead = scanf("%d", &iChoice);
 while(iNRead == 1)
```

```
switch(iChoice)
  case PUSH:
    printf("Value to add: ");
    int valE;
    valE = scanf("%d", &val);
    if(valE != 1)
      printf("Invalid input\n");
    if(size < MAX)</pre>
        stack[size] = val;
        size++;
    else
        printf("Error. Exceeding the MAX size");
  break;
  case POP:
   if(size > 0)
        val = stack[size - 1];
        printf("Removed element: %d\n", val);
        size--;
    else
      printf("Stack is empty");
  break;
  case LIST:
        for(i = 0; i < size; i++)
            printf("\n%d", stack[i]);
            printf("\n");
```

```
break;

break;

printf("Choice (1=add, 0=remove, 2=list): ");
iNRead = scanf("%d", &iChoice);

return EXIT_SUCCESS;
}
```

```
C:\Users\srivk>gcc C:\Users\srivk\OneDrive\Desktop\UNB\Summer2020\CS2263\Lectures\Week1\Day2_May5\testPlayStack.c -o testing

C:\Users\srivk>testing
C:\Users\srivk\contage
C:\Users\sr
```