# Printf Scanf Assignment

**Mandatory:**

Q1. WAP with

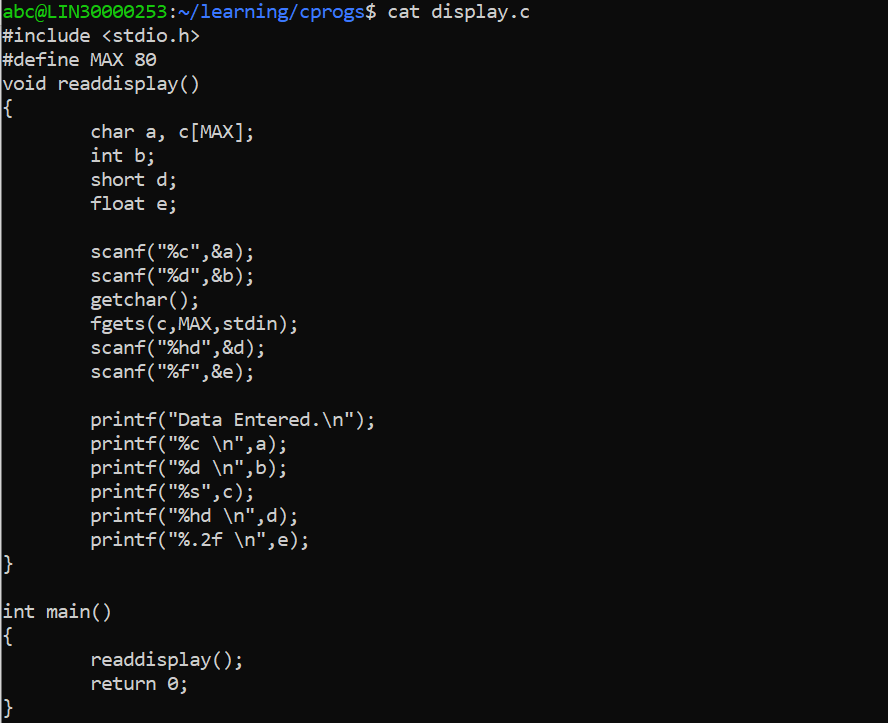
1a. function readdisplay() to read the following data types only one at a time at run time and to display.

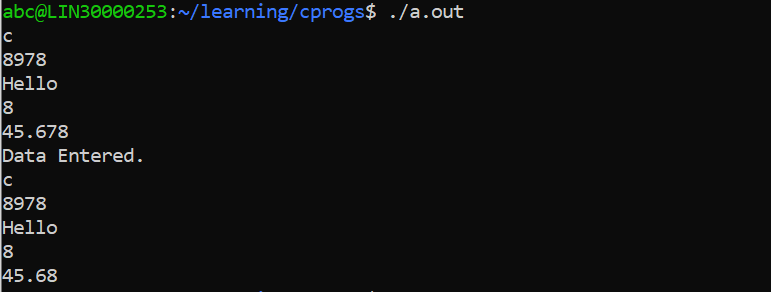
1. char type
2. integer type
3. char array of maximum 80 characters
4. short type
5. float type

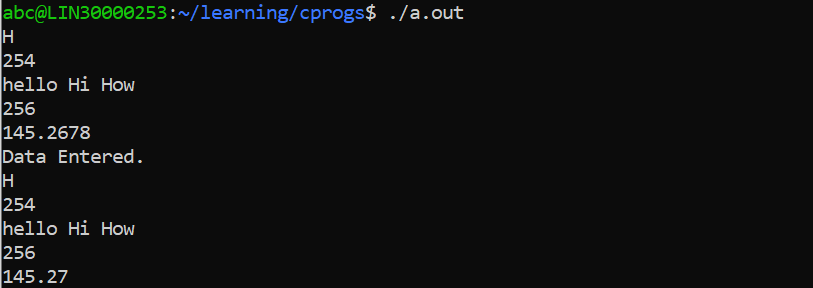
TestData:

‘c’, 8978, “hello”, 8, 45.678

‘H’, 254, “hello Hi How”, 256, 145.2678



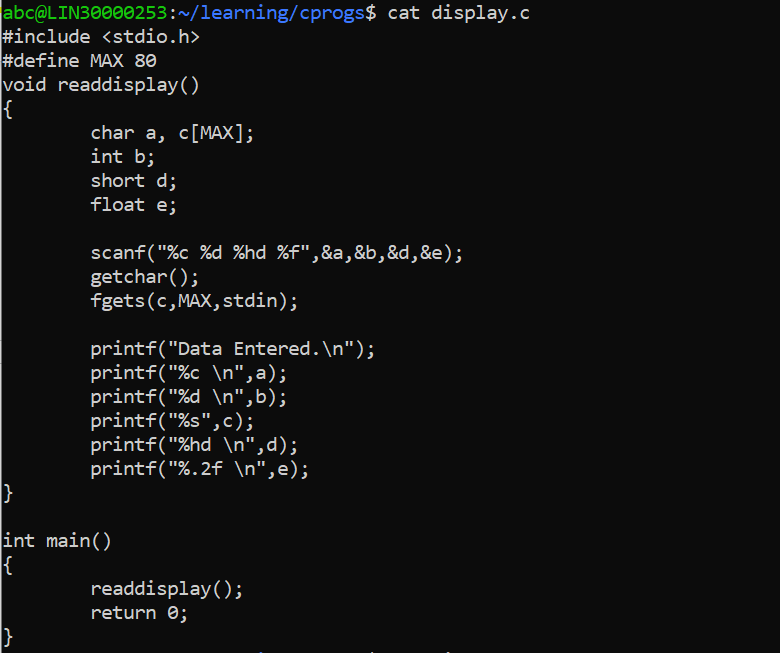


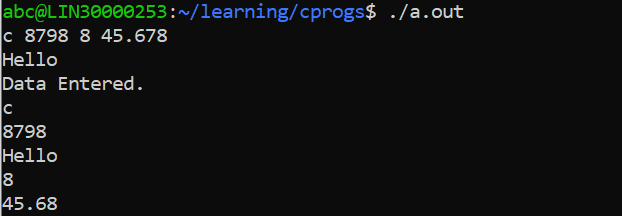


1b. Create a copy of readdisplay() as function readdisplay2() with changes below

* Instead of reading 1 data at a time, read all inputs using a single scanf().

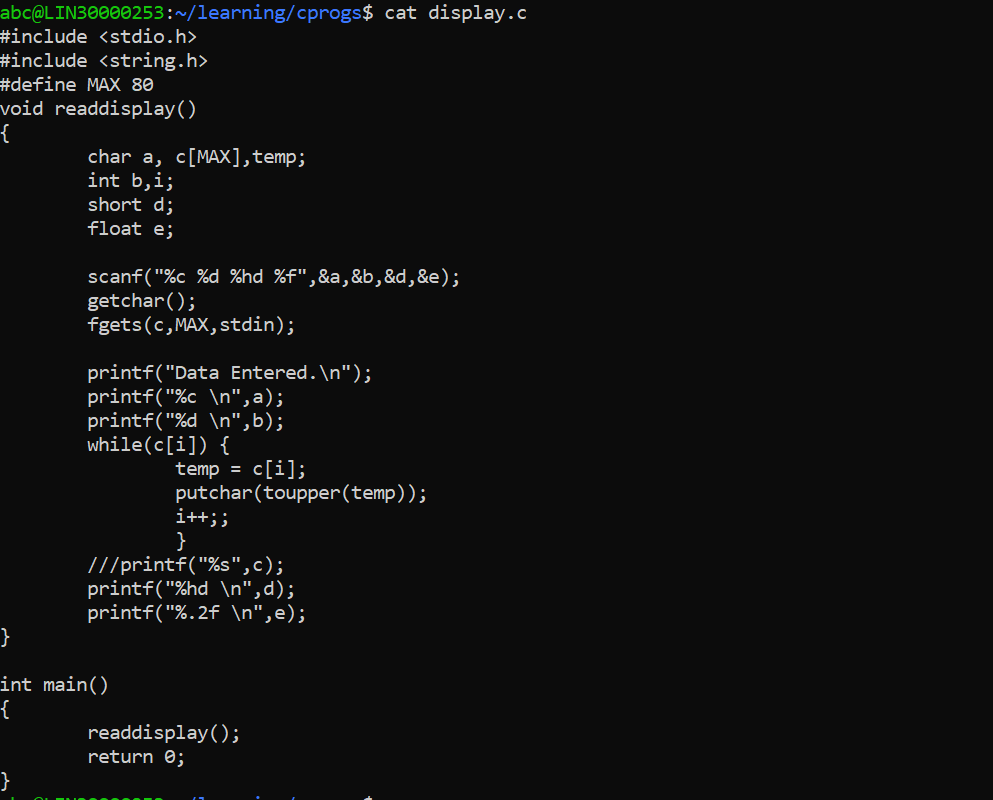
Test readdisplay2() by changing the read order. Do you observe any issue?

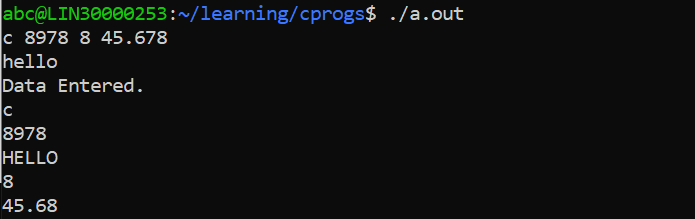


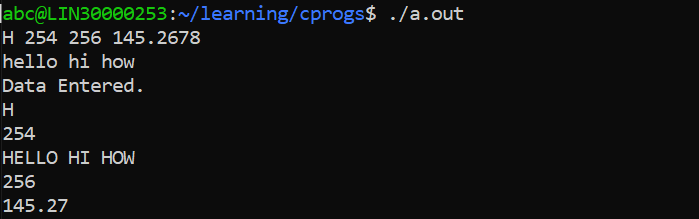




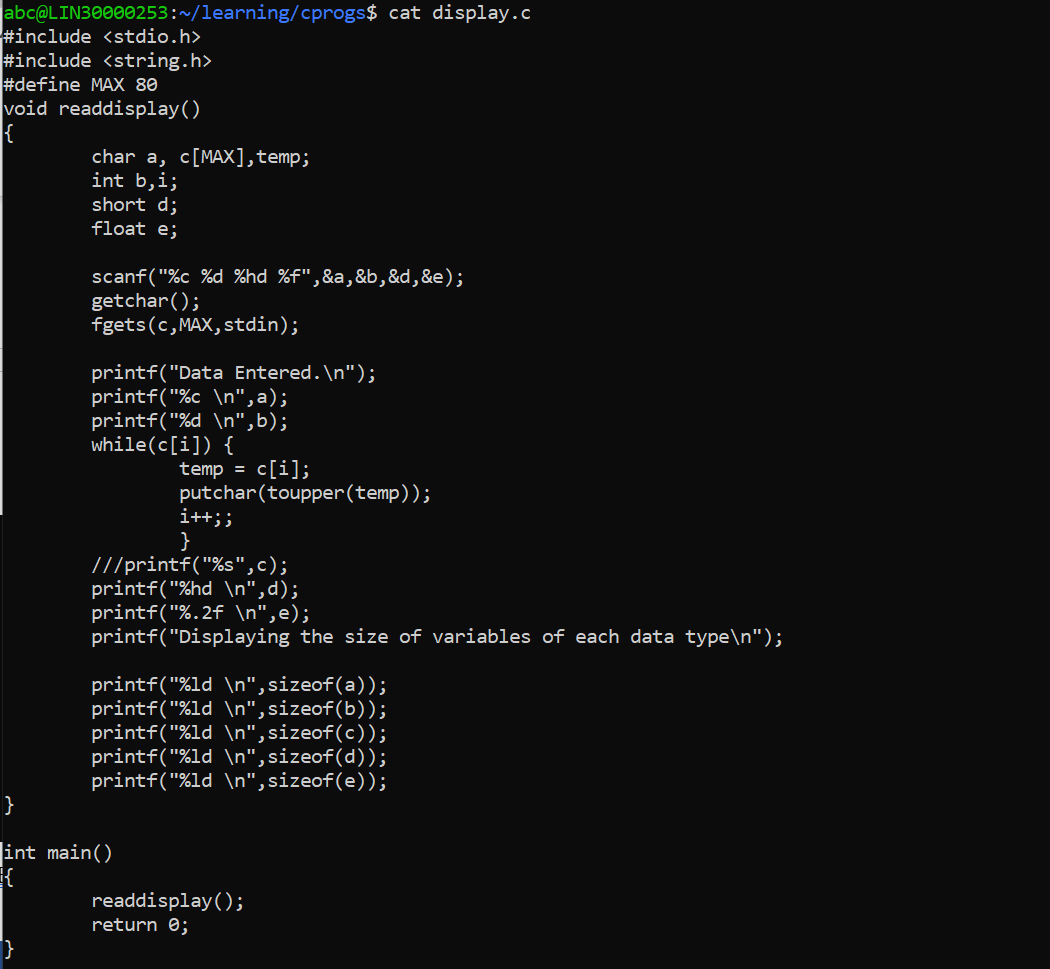
1c. display the char array content in upper case

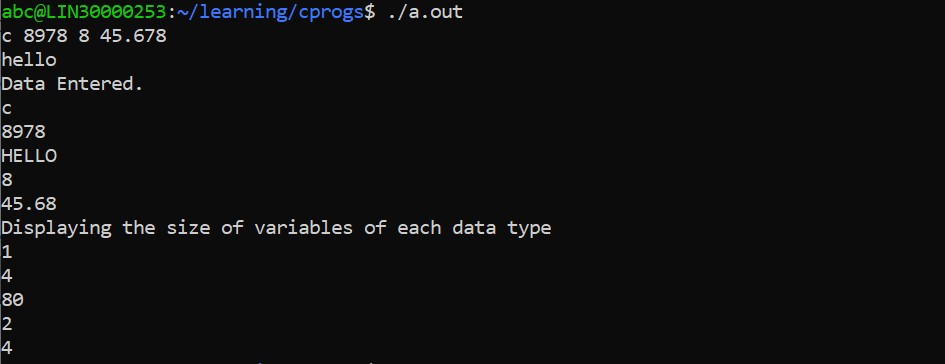


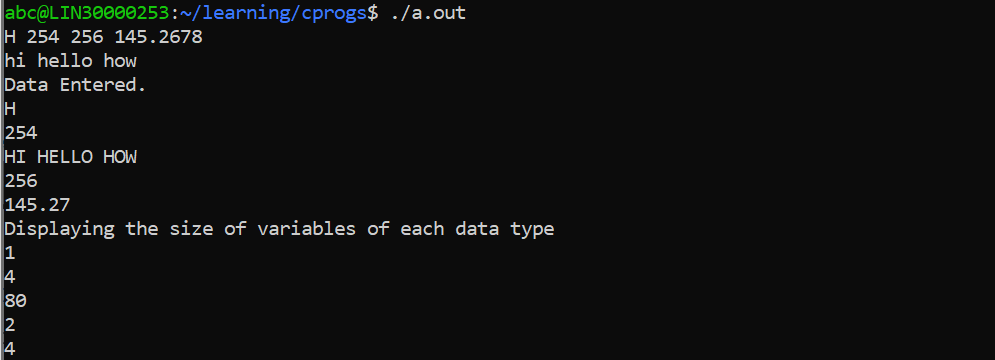




1d. Add code to display the size of each data type mentioned in Q1a and sizeof the variables of each datatype (You may refer sample code in data\_type\_size.c )







Q2. Try to run the program with code snippet below. Check the output and analyse. Fix it to get correct result.

#include<stdio.h>

int main()

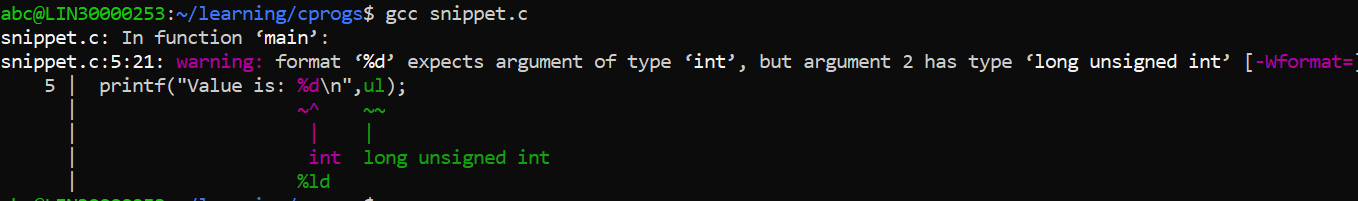
{

unsigned long int ul = 200333333334340;

printf("value is:%d\n", ul);

return 0;

}



Ans. The issue can be resolved by using the proper place holder for long integer because d will hold for a normal integer while ld does for a long integer

