// Online C++ compiler to run C++ program online

#include <iostream>

using namespace std;

int main() {

cout<<"\n\n Check the upper and lower limits of integers :\n";

cout<<"------------------------------------------------- = :\n";

cout<<"The maximum limit of the int data type : " << INT\_MAX<<endl;

cout<<"The minimum limit of the int data type : " << INT\_MIN<<endl;

cout<<"The maximum limit of the int usigned data type : " << UINT\_MAX<<endl;

cout<<"The maximum limit of the long long data type : " << LLONG\_MAX<<endl;

cout<<"The minimum limit of the long long data type : " << LLONG\_MIN<<endl;

cout<<"The maximum limit of the long long usigned data type : " << ULLONG\_MAX<<endl;

cout<<"The maximum limit of the short data type : " << SHRT\_MAX<<endl;

cout<<"The minimum limit of the short data type : " << SHRT\_MIN<<endl;

cout<<"The maximum limit of the short usigned data type : " << USHRT\_MAX<<endl;

return 0;

}

// Online C++ compiler to run C++ program online

#include <iostream>

using namespace std;

int main() {

short s1 = 10;

signed short s2 =20;

unsigned short s3 =30;

int i1 = 10;

signed int i2 =20;

unsigned int i3 =30;

long l1 = 10;

signed long l2 =20;

unsigned long l3 =30;

long long ll1 = 10;

signed long long ll2 =20;

unsigned long long ll3 =30;

cout <<"The s1 size in memory =" <<sizeof (s1) <<endl;

cout <<"The s2 size in memory =" <<sizeof (s2) <<endl;

cout <<"The s3 size in memory =" <<sizeof (s3) <<endl;

cout <<"The i1 size in memory =" <<sizeof (i1) <<endl;

cout <<"The i2 size in memory =" <<sizeof (i2) <<endl;

cout <<"The i3 size in memory =" <<sizeof (i3) <<endl;

cout <<"The l1 size in memory =" <<sizeof (l1) <<endl;

cout <<"The l2 size in memory =" <<sizeof (l2) <<endl;

cout <<"The l3 size in memory =" <<sizeof (l3) <<endl;

cout <<"The ll1 size in memory =" <<sizeof (ll1) <<endl;

cout <<"The ll2 size in memory =" <<sizeof (ll2) <<endl;

cout <<"The ll3 size in memory =" <<sizeof (ll3) <<endl;

return 0;

}