#include <iostream>

#include<string.h>

#include<stdlib.h>

#include<typeinfo>

#include<cctype>

#include<bits/stdc++.h>

using namespace std;

int main(int argc, char\*\* argv)

{

char ch;//Declaring character datatype

int c,i;//Declaring integer datatype

double d;//Declaring double datatype

cout << "You have entered " << argc

<< " arguments:" << "\n";

cout<<"TYPE"<<" "<<"value"<<" "<<"size"<<endl;

for(i=1;i<argc;i++)//for loop to increase the i value with respect to argument counter

{

if(argv[i]>=0)//if condition for checking whether the value greater than zero or not

{

c=atoi(argv[i]);//atol function accepts a string and convert to integer

d=atof(argv[i]);//atof function accepts a string and convert to float

if(c==d) //if condition for comparing the values

{

cout<<"Integer"<<" "<<c<<" "<<sizeof(int)<<endl;

}

else

{

cout<<"Double"<<" "<<d<<" "<<sizeof(double)<<endl;

}

}

else

{

// cout<<argv[i].size()<<endl;

ch=atoi(argv[i]);

if((ch==1))

{

cout<<sizeof(char);

}

else

{

cout<<sizeof(wchar\_t);

}

}

}

return 0;

}