**Lab Assignment 0**

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Q: Write a program to read a line of text which will contain a list of integers. Store these integers in an integer array and display them.

**Type 1 (*Python*):**

str = input()

arr = [ int(i) for i in str.split() ]

print(len(arr))

**Type 2** (***C++***)**:**

#include <bits/stdc++.h>

using namespace std;

int main() {

string str;

getline(cin, str); vector<int> arr;

stringstream ss(str);

int num;

while (ss >> num) {

arr.push\_back(num);

}

cout << arr.size() << endl;

return 0;

}

**Type 3 (*C++*):**

#include <bits/stdc++.h>

using namespace std;

int main()

{

string s;

getline(cin,s);

vector<int>v;

string temp = "";

s += ' ';

for( int i = 0 ; i < s.size(); i++)

{

if(s[i] == ' ')

{

int x = stoi(temp);

v.push\_back(x);

temp = "";

continue;

}

temp += s[i];

}

cout<<v.size()<<endl;

for(auto a : v)cout<<a<<' ';cout<<endl;

return 0;

}