

## Lab Assignment 0

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(std::cin, str); // Read the whole line of input
    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 <iostream>
#include <sstream>
#include <vector>
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;
}
```