

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;  
}
```