

# حل تمرین برنامه نویسی پیشرفته

جلسه 10 ام

ادرس کانال

@cpp979802

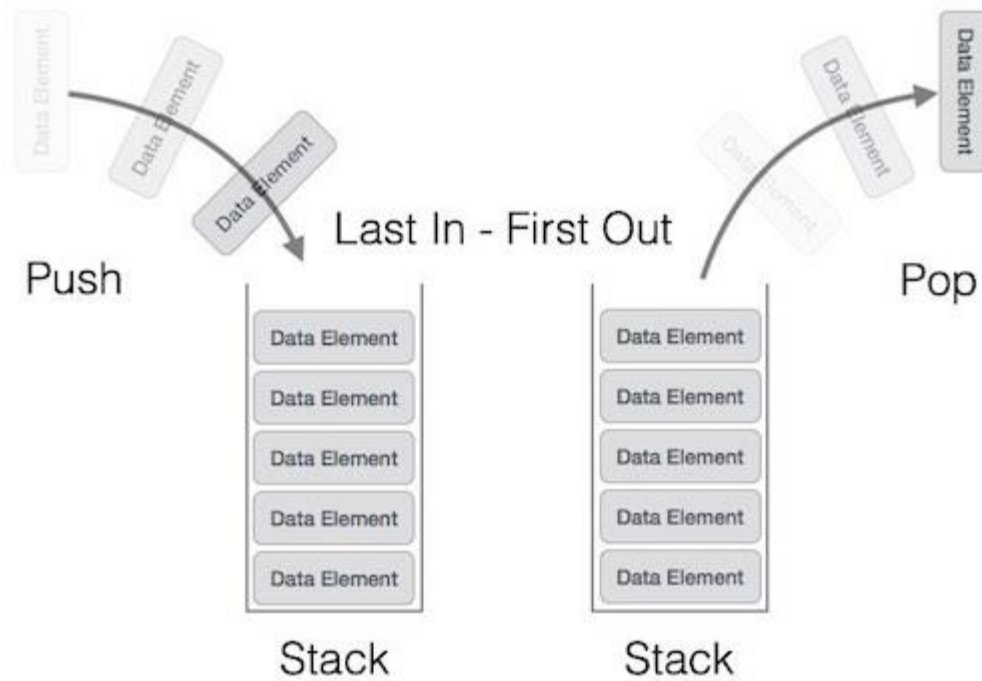


# در این جلسه

- متغیر های عمومی و محلی
- مقدار اولیه
- فراخوانی با ارجاع
- نحوه اجرای توابع
- تابع درون خطی inline

# معرفی مفهوم پشته

- First In First Out



# inline

```
1 // Fig. 6.16: fig06_16.cpp
2 // inline function that calculates the volume of a cube.
3 #include <iostream>
4 using namespace std;
5
6 // Definition of inline function cube. Definition of function appears
7 // before function is called, so a function prototype is not required.
8 // First line of function definition acts as the prototype.
9 inline double cube(const double side) {
10     return side * side * side; // calculate cube
11 }
12
13 int main() {
14     double sideValue; // stores value entered by user
15     cout << "Enter the side length of your cube: ";
16     cin >> sideValue; // read value from user
17
18     // calculate cube of sideValue and display result
19     cout << "Volume of cube with side "
20          << sideValue << " is " << cube(sideValue) << endl;
21 }
```

```
Enter the side length of your cube: 3.5
Volume of cube with side 3.5 is 42.875
```

**Fig. 6.16** | inline function that calculates the volume of a cube.

این هفته تمرین نداریم ( ;

@cpp979802