Solution Review: Account Number of Customers with Balance < $500

Let's go over the solution review of the challenge given in the previous lesson.

We'll cover the following

- Solution
- Explanation
  - struct Account
  - check_account

Solution

Press the **RUN** button and see the output!

```
#include <iostream>

using namespace std;

// Structure Account
struct Account {
  // Stores the name
  string name;
  // Stores the account number
  int number;
  // Stores the total amount
  double balance;
};

// Function check_account
void check_account(struct Account p[], int arr[], int size) {
  // Traverse array
  for (int i = 0; i < size; i++) {
    // Check if balance less than 500
    if (p[i].balance < 500) {
      // Store account number
      arr[i] = p[i].number;
    } else {
      // Store -1
      arr[i] = -1;
    }
  }
}
```

```
// print_arr function
void print_arr(int arr[], int size) {
  for (int i = 0; i < size; i++) {
    cout << arr[i] << endl;
  }
}

// print_Account function
void print_Account(struct Account p[], int size) {
  for (int i = 0; i < size; i++) {
    cout << "Person" << i + 1 << " details:" << endl;
    cout << p[i].name << endl;
    cout << p[i].number << endl;
    cout << p[i].balance << endl;
    cout << endl;
  }
}

// main function
int main() {
  // Declare array of type int
  int arr[3];
  // Declare structure array
  struct Account p[3];
  // Intialize structure array
  p[0] = {"John",578328,890};
  p[1] = {"Alex",908210,430.2 };
  p[2] = {"Kim",165216,98.5};
  // Call print_Account function
  print_Account(p, 3);
  // Call check_account function
  check_account(p, arr, 3);
  // Call print_arr function
  print_arr(arr, 3);

  return 0;
}
```

Explanation

struct Account

We define the structure `Account` on **Line No. 6** that stores the `name`, `number`, and `balance` of an account holder.

check_account

The `check_account` function takes the structure array of type `Account`, `int` array, and their `size` as in its input parameters.

Initialize a for loop from `0` to `size-1`. Check if the structure member `balance` of `p[i]` is less than **500**. If true, save the account number in an array; otherwise, save

`p[1]` is less than **500**. If true, save the account number in an array, otherwise, save `-1`.

Let's wrap up this chapter by completing a quiz in the upcoming lesson.