

### THREE SET CODE

```
#include<iostream>
#include<ctime> using
namespace std; int
PlayGame(int); int main()
{
    int value = 1;
    int difficulty = 1;
    int max_difficulty = 10;
    while (difficulty <= max_difficulty)
    {
        value = PlayGame(difficulty); if
        (value == 0)
            break; cin.clear();
        cin.ignore();
        ++difficulty;
    }
    if (difficulty == 11)
        cout << "You've mastered the game!" << endl; return 0;
}
int PlayGame(int difficulty)
{
    srand(time(NULL)); int
    arr[3];
    int a = rand() % difficulty + 1; int b =
    rand() % difficulty + 1; int c = rand() %
    difficulty + 1; int sum = a + b + c;
    int product = a * b * c;
    cout << "Welcome to level " << difficulty << endl; cout <<
    "Unlock! safe Box by Below hints- " << endl;
    cout << "Code Hint 1: " << "Sum of 3-digit code is: " << sum << endl;
    cout << "Code Hint 2: " << "Product of 3-digit code is: " << product << endl; cout << "Enter Code: ";
    for (int i = 0; i < 3; i++) cin >>
        arr[i];
    int trialsum = 0; int
    trialproduct = 1;
    for (int i = 0; i < 3; i++) trialsum += arr[i];
    for (int i = 0; i < 3; i++) trialproduct *=
        arr[i];
    if (sum == trialsum && product == trialproduct)
    {

    }
    else
    {

    }

}

cout << "Congratulations! You've entered next level" << endl;
cout << " " << endl;<<endl;<<endl; return 1;
```

```
cout << "You've failed!!" << endl;  
cout << "Hahahaha! Police caught you." << endl; return 0;
```