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//Lab exercise 3
/*#include <iostream> //QUESTION 1
using namespace std;

bool isPassing(int score)
{
  return score >= 50;
}

int main() {
  int score;
  cout << "Enter the student's test score: ";
  cin >> score;

  if (isPassing(score)) {
    cout << "The student passed the test." << endl;
  } else {
    cout << "The student failed the test." << endl;
  }

  return 0;
}
#include <iostream> //QUESTION 2
#include <iomanip>
using namespace std;
int main ()
{
        const int SIZE = 5;
        double price[SIZE], total = 0.0, highestprice = 0.0;
```

```
	cout << "Enter the prices of 5 items: " << endl;
	for (int i = 0; i<SIZE; ++i)
	{
		cin >> price[i];
		total += price[i];



		if (price[i] > highestprice)
		{
			highestprice = price[i];
		}

	}
	double average = total / SIZE;

	cout << fixed << setprecision(2);
	cout << "Total price: " << total << endl;
	cout << "Average price: RM " << average << endl;
	cout << "Highest price: RM " <<highestprice<<endl;

	return 0;
}

#include <iostream> //QUESTION 3
#include <iomanip>
using namespace std;

int main ()
{
	const int STUDENTS = 2;
	const int SUBJECTS = 3;
```

```
	int marks [STUDENTS][SUBJECTS];
	int total[STUDENTS] = {0};

	cout << "Enter marks for 2 student (3subject each):  " <<endl;
	for (int i = 0; i<STUDENTS; ++i)
	{
		cout << "student " << i+1 << endl;
		for (int j= 0; j < SUBJECTS; ++j)
		{
			cin >> marks[i][j] ;
			total[i]+= marks[i][j];
		}
	}
	cout << "\nmarks table: "<<endl;
	cout << "Student\tMath\tEnglish\tScience\tTotal" <<endl;
	for ( int i = 0; i< STUDENTS; ++i)
	{
		cout << i + 1 << "\t";
		for (int j = 0; j < SUBJECTS; ++j)
		{
			cout << marks[i][j] << "\t";
		}
		cout << total [i] << endl;
	}
	return 0;
}*/
#include <iostream>
#include <iomanip>
using namespace std;

double totalSales(double sales[], int size) {
```

```
    double total = 0;
    for (int i = 0; i < size; i++) {
        total += sales[i];
    }
    return total;
}

void findMaxRegion(double sales[], int size, double &maxSales, int &region) {
    maxSales = sales[0];
    region = 1;
    for (int i = 1; i < size; i++) {
        if (sales[i] > maxSales) {
            maxSales = sales[i];
            region = i + 1;
        }
    }
}

int main() {

    double sales[2][3];

    cout << "Enter sales data for Product 1 across 3 regions:" << endl;
    for (int r = 0; r < 3; r++) {
        cout << "Region " << (r + 1) << ": ";
        cin >> sales[0][r];
    }

    cout << "Enter sales data for Product 2 across 3 regions:" << endl;
    for (int r = 0; r < 3; r++) {
        cout << "Region " << (r + 1) << ": ";
```

```
        cin >> sales[1][r];
    }

    double totalSalesP1 = totalSales(sales[0], 3);
    double maxSalesP1;
    int maxRegionP1;
    findMaxRegion(sales[0], 3, maxSalesP1, maxRegionP1);

    cout << fixed << setprecision(2);
    cout << "Product 1: Total sales: RM" << totalSalesP1 << ", Region with highest sales: Region "
<< maxRegionP1 << " (Sales: RM"
         << maxSalesP1 << ")" << endl;

    double totalSalesP2 = totalSales(sales[1], 3);
    double maxSalesP2;
    int maxRegionP2;
    findMaxRegion(sales[1], 3, maxSalesP2, maxRegionP2);

    cout << "Product 2: Total sales: RM" << totalSalesP2 << ", Region with highest sales: Region "
<< maxRegionP2 << " (Sales: RM" << maxSalesP2
                        << ")" << endl;

    return 0;
}
```