Exercise 2-2: Data Types

In order to avoid errors C++ requires the programmer to define data types to differentiate between whole numbers, decimal numbers, and alphabetic letters. For example, you cannot logically divide the number 15 by the letter A.

Exercise 2-4: Sporting Arena

1. With user input

#include <iostream>

using namespace std;

int main() {

const int SIZE = 6;

int practiceMatches[SIZE] = { 0, 0, 0, 0, 0, 0 };

int matchNum[SIZE] = { 1, 2, 3, 4, 5, 6, };

int total = 0;

int avg;

for (int i = 0; i < SIZE; i++) {

cout << "Enter how many people attended practice match "

<< matchNum[i] << ": ";

cin >> practiceMatches[i];

total = total + practiceMatches[i];

}

avg = total / SIZE;

cout << "\nThe average attendance per match for the season is " <<

avg << endl << endl;

system("pause");

return 0;

}

1. Automated - without user input

#include <iostream>

using namespace std;

int main() {

const int SIZE = 6;

int practiceMatches[SIZE] = { 31, 28, 25, 40, 37, 46 };

int total = 0;

int avg;

for (int i = 0; i < SIZE; i++) {

total = total + practiceMatches[i];

}

avg = total / SIZE;

cout << "The average attendance per match for the season is " <<

avg << endl << endl;

system("pause");

return 0;

}