

Answer on Question #44452, Programming, C++

Problem.

Your city's parking violation bureau wants you to write a program to compute fines for parking violations. There are four types of violation: type A carries a fine of \$10, type B carries a fine of \$20, type C carries a fine of \$30, and type D carries a fine of \$50. The program should ask for the number of type A violations, the number of type B violations, and so on. The program should display the total fine for the person.

Solution.

Code

```
#include <iostream>

using namespace std;

int main() {
    // number of type A violations
    int A;
    // number of type B violations
    int B;
    // number of type C violations
    int C;
    // number of type D violations
    int D;

    cout << "Enter the number of type A violations: ";
    cin >> A;
    cout << "Enter the number of type B violations: ";
    cin >> B;
    cout << "Enter the number of type C violations: ";
    cin >> C;
    cout << "Enter the number of type D violations: ";
    cin >> D;

    // total fine
    int fine = 10 * A + 20 * B + 30 * C + 50 * D;
    cout << "Total fine: $" << fine;
    return 0;
}
```

Result

```
Enter the number of type A violations: 1
Enter the number of type B violations: 2
Enter the number of type C violations: 3
Enter the number of type D violations: 4
Total fine: $340
Process returned 0 (0x0)  execution time : 3.336 s
Press any key to continue.
-
```