

```
// A C++ program that calculates the number of days lived
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```
#include <iostream>
```

```
#include <string>
```

```
using namespace std;
```

```
class Calculating {
```

```
private:
```

```
    int _bday, _bmonth, _byear;
```

```
    int _cday, _cmonth, _cyear;
```

```
    string b;
```

```
    long _bjdn, _cjdn;
```

```
public:
```

```
    Calculating() {
```

```
        _bday = 1;
```

```
        _bmonth = 1;
```

```
        _byear = 1970;
```

```
        b = "";
```

```
    }
```

```
    long getJDN(int day, int month, int year) {
```

```
        const int EPOCH_G = 32045;
```

```
        const int EPOCH_J = 32083;
```

```
        int y = year + 4800;
```

```
        int m = month - 3;
```

```
        if (month <= 2) {
```

```
            y--;
```

```
            m += 12;
```

```
        }
```

```
        long jdn = day + ((153 * m + 2) / 5) + 365 * y +  
            y / 4;
```

```
        if (jdn >= 2331254) jdn += -y / 100 +  
            y / 400 - EPOCH_G;
```

```
        else jdn -= EPOCH_J;
```

```
        return jdn;
```

```
    }
```

```

void getBDay() {

    cout << "Enter your birth date\n";
    cin >> _bday >> _bmonth >> _byear;
    cout << "Is it correct?(y\\n)\\t ";
    cin >> b;

    while (b != "y" && b != "n")
    {
        cout << "\n!Write \'y\' or \'n\' \n";
        cin >> b;
    }

    while (b == "n")
    {
        cout << "\n!Write correctly your birth "
                << "date\n";
        cout << "\nEnter your birth date\n";
        cin >> _bday >> _bmonth >> _byear;
        cout << "Is it correct?(y\\n)\\t ";
        cin >> b;
    }
    cout << endl;
    _bjdn = getJDN(_bday, _bmonth, _byear);

    cout << endl;
}

void getCDay() {

    cout << "Enter current date\n";
    cin >> _cday >> _cmonth >> _cyear;
    cout << "Is it correct?(y\\n)\\t ";
    cin >> b;

    while (b != "y" && b != "n")
    {
        cout << "\n!Write \'y\' or \'n\' \n";
        cin >> b;
    }

    while (b == "n")
    {
        cout << "\n!Write correctly current date \n";
        cout << "\nEnter your current date \n";

```

```

        cin >> _cday >> _cmonth >> _cyear;
        cout << "Is it correct?(y\\n)\\t ";
        cin >> b;
    }
    _cjd = getJDN(_cday, _cmonth, _cyear);
    cout << endl;
}

void differenceInDates() {
    cout << "\\nThe difference between your birth date "
        << "and current date is\\n\\t ";
    cout << _cjd - _bjd << "\\t days\\n ";
}

};

int main() {
    Calculating person;
    string s = "y";

    while (s == "y")
    {
        person.getBDay();
        person.getCDay();
        person.differenceInDates();

        cout << "\\nAre you want to set one more date?\\t ";
        cin >> s;
    }

    system("pause");
}

```