

The code is given below. A compilable version is in the file `input.cpp`.

```
template<class T>
bool Input(T& x)
{ // Input a nonnegative value.
    int NumOfAttempts = 3;

    // try at most NumOfAttempts times
    for (int i = 0; i < NumOfAttempts; i++) {
        cout << "Enter a nonnegative value" << endl;
        cin >> x;
        if (x >= 0) return true;
        cout << x << " is not nonnegative" << endl;
    }
    // did not get nonnegative value
    cout << "Sorry, you get only "
        << NumOfAttempts << " chances."
        << endl;
    return false;
}
```
