

Programming Contest Cheat Sheet

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1 Vim Default Configuration

```
vim ~/.vimrc
:r $VIMRUNTIME/vimrc_example.vim
```

2 Makefile (weird chars are backticks)

```
e="`pwd | sed 's/^.*\\//'`"
o="$e.out"
i="$e.in"
a="$e.answer"

default: test

build:
    @g++ -lm -O2 -g -Wall -pedantic *.cpp -o $e

run: build
    @./$e < $i

test: build
    @./$e < $i > $o
    @diff $o $a

prep:
    mkdir $p
    cd $p; vim $p.in; vim $p.answer
    echo 'include ../Makefile' > $p/Makefile
    cp template.cpp $p/$p.cpp
    vim $p/$p.cpp

clip:
    cat $e.cpp | xclip -selection clipboard

clean:
    rm $e $o
```

3 C++ Template

```
#include <algorithm>
#include <cassert>
#include <climits>
#include <cmath>
#include <cstdio>
#include <cstdlib>
#include <cstring>
#include <deque>
#include <fstream>
#include <iostream>
#include <iterator>
#include <list>
#include <map>
#include <numeric>
#include <queue>
#include <set>
#include <sstream>
#include <stack>
#include <string>
#include <vector>

using namespace std;

#define Each(x, v) for (typeof (v).begin() x=(v).begin(); x !=(v).end(); ++x)
#define For(i, a, b) for (int i=(a); i<(b); ++i)

typedef long long ll;
typedef vector<int> vi;
typedef pair<int, int> pi;
typedef vector<ii> vii;
typedef set<int> si;
typedef map<string, int> msi;

#define DEBUG true

#if DEBUG
#define D(x) cout << #x " is " << x << endl
#define DA(x,n) cout << #x ":\n";For(i,0,n){cout<<x[i]<<" ";cout<<endl
#define DAA(x,m,n) cout << #x ":\n";For(i,0,m){For(j,0,n){cout<<x[i][j]<<" ";cout<<endl}
#else
#define D(x)
#define DA(x,n)
#define DAA(x,m,n)
#endif

bool solve(int T) {
    return true;
}
```

```
int main() {  
    int N = 1;  
    cin >> N;  
    For(i,0,N)  
        solve(i+1);  
    //while (solve(N++)) {}  
  
    return 0;  
}
```
