**BÀI 2**

#include <iostream>

using namespace std;

int main()

{

int n;

cin >> n;

int cnt (0);

// in ra một tam giác ngược kích thước n;

for ( int m = n; m > 0; m--){

for ( int j = cnt; j > 0 ; j--){

cout << " ";

}

cnt ++;

for ( int i = m ; i > 0 ; i--){

cout << "\*";

}

cout << endl;

}

return 0;

}

**BÀI 3**

#include <iostream>

using namespace std;

int main()

{

int n;

cin >> n;

int cnt( n - 1);

for ( int j = 0; j < 5 ; j++){

for ( int m = cnt ; m >0 ; m--){

cout << " ";

}

cnt --;

for ( int i = 1; i <= j\*2 + 1; i++ ){

cout << "\*";

}

cout << endl;

}

return 0;

}

**BÀI 4**

#include <iostream>

using namespace std;

int main()

{

int n;

cin >> n;

int cnt(0);

for ( int j = n; j > 0 ; j--){

for ( int m = 0 ; m < cnt ; m++){

cout << " ";

}

cnt ++;

for ( int i = 1; i <= j\*2 - 1; i++ ){

cout << "\*";

}

cout << endl;

}

return 0;

}

**BÀI 6**

#include <iostream>

using namespace std;

int main()

{

int n;

cin >> n;

int cnt (0);

for ( int m = 1; m <= 10 ; m++){

for ( int i = m ; i <= 10 ; i++){

cout << i << " " ;

}

for (int j = 1 ; j <= cnt ; j++){

cout << j << " ";

}

cnt++;

cout << endl;

}

return 0;

}

**BÀI 7**

#include <iostream>

using namespace std;

int main ()

{

int a(-1);

do {

int b(0);

cin >> b;

if ( a != b) cout << b << " ";

a = b;

}while ( a > 0 );

return 0;

}

**CHECK LỖI**

**Bài 1.** Tìm lỗi trong mỗi vòng lặp sau:

1. while (n<20)**;**

   cout << n++ <<endl;

1. for (int i = 1**,** i <= 8**,** ++i)

   cout << 1.0/i << endl;

1. int n = 10;

**do**

        cout << 1.0/n ;

                  n++;

               while (n < 20);

1. for (int i=10; i<20; ) {

   cout << i\*i <<endl;

**i--;**

}

**KIỂM TRA SỐ CHÍNH PHƯƠNG**

#include <iostream>

using namespace std;

bool cphuong(int & upd , int sotest){

int bp = upd \* upd;

if (bp < sotest){

upd++;

return cphuong(upd,sotest);

} else if ( bp == sotest){

return true;

}else return false;

}

int main ()

{

int sotest;

cin >> sotest;

int tmp = 1;

cout << cphuong(tmp,sotest);

return 0;

}

**Bài 15**

#include <iostream>

using namespace std;

int fibo(int upd ){

if ( upd <= 2){

return 1;

}

else{

return fibo(upd - 2) + fibo(upd - 1);

}

}

int main()

{

int n; cin >> n;

for(int i = 1 ; ;i++){

int tmp = fibo(i);

if ( tmp <= n) cout << tmp << " " ;

else return 0;

}

return 0;

}

**BÀI 17 18 19**

#include <iostream>

using namespace std;

int main()

{

int n; cin >> n;

cout << "Tong so mon hoc can tinh DTB: " << n << endl;

double sum(0), cnt(0);

for ( int i = 1 ; i <= n; i++){

double diem(0), heso(0);

cout << "Diem mon hoc " << i << ": " ;

cin >> diem;

cout << endl;

while ( diem <0 || diem >10){

cout << "Nhap lai diem mon hoc " << i << " (trong khoang tu 0..10): ";

cin >> diem;

cout << endl;

}

cout << "He so mon hoc " << i << ": " ;

cin >> heso;

cout << endl;

sum += (diem \* heso);

cnt += heso;

}

cout << "So mon hoc: " << n << endl;

cout << "Tong so he so: " << cnt << endl;

cout << "Diem trung binh cua 2 mon hoc: " << sum/cnt << endl;

return 0;

}