C++ Programmirleme sapaklary, (http://www.tmolympiad.org/)

Şertlere gora hereket etmek.

Programma ýazmak, kompýuterlere olaryn etjek zadyny gowy öwretmekdir!

Birine bir zat etmegi öwredýän bolsanyz, hokman **eger şeýle bolsa şuny et, bolmasada buny et diýip öwredensiňiz.**

Meselem;
Gapydaky güjüge öwredelin:
Eger men gelsem üýrme, **ýogsada** uýr

Garagula diyyan;
Egerde biri gelse, tanaýan bolsan sagat 9-dan ir göýber ýogsada salma. Eger tanamaýan bolsan, 5-den ir bolsa geçir. Eger 5-7 arasynda gelse, maňa jan et. Eger 7den giç gelse kow!

Kompýuterlere hem şular ýaly akyl satmak üçin C++-de if we else diýip bela bar. Olar bilen näme bolan wagty näme etmelidigini öwredip bilýäniz.Ýagny siziň programmanyz, şertlere gora etjek işini saýlaýar.

C++ if-else gurlushy

```
if( bu_yer_dogry_bolsa ) {
     bu_yerini_ishlet;
} else {
     yogsada_bu_yerini_ishlet;
}
```

Meselem:

```
string at;
cout << "Ey sen mana adyny aytsana?!" << endl;
cin >> at;
if( at == "atamyrat" ) {
      cout << "Ha, geciber! Sen ekenina..." << endl;
} else {
      cout << "Men Gujuk! Waww waaww. Bar git..." << endl;
}
```

Ikinji meselem.

```
cout << "Sagady aytsana?" << endl;
int sagat;
cin >> sagat;
cout << "Men sani tanayan bolsam 0 yaz, yogsada 1 yaz!" << endl;
int tanys;
cin >> tanys;
if( tanys==0 ) {
      /* bu adam tanysh eken. Sagada seredeli...*/
      if( sagat <= 9 ) {
```

```
            cout << "Geciber!" << endl;
      } else {
            cout << "Irrak gelmelida! Bagyshla salyp bilemok seni!" << endl;
      }
} else {
      /* eger natanysh bolsa bu yer ishlap bashlayar */
      if( sagat < 5 ) {
            cout << "geciber, myhman!" << endl;
      }
      if( 5<= sagat && sagat<=7 )
            cout << "Garash. Jan edip sorayin" << endl;
      if( sagat > 7 )
            cout << "Bar git!";
}
```

Bu günlik aşakdaky programmany ýazyp işledip görmegiňiz ýeterli.

```
/* if-else */
#include<iostream>
#include<string>
#include<cstdlib>
using namespace std;

int main()
{
    int dogry = 0;
    cout << "men sana examin edeyinle? " << endl;

    int synp;
    cout << "sen nacinci synpda okayanay? " << endl;
    cin >> synp;

    if( synp<=7 ) {
        cout << "entek pacan bolyan. ulalyp gel!" << endl;
    }

    if( synp==8 ) {

        cout << "10+1+10 nace bolyar? " << endl;
        int jogap;
        cin >> jogap;
        if( jogap == 10+1+10 ) {
            cout << "Bilaydinay?!" << endl;
            dogry=1;
        } else {
            cout << "hehe! yalnysh!!!" << endl;
        }

        cout << "ikinji sorag! 'men' terslin yaz! " << endl;
        string jgp2;
        cin >> jgp2;
        if( jgp2 == "nem" ) {
            cout << "Dogry!" << endl;
            dogry = dogry + 1;
        } else {
            cout << "nem diyip yazan bolsan bolardy! gynanyan..." << endl;
```

```
        }
    }

    if( synp==9 ) {
        cout << "okuwy ayin nacinji guni gutaryan?" << endl;
        int gun;
        cin >> gun;
        if( gun==25 ) {
            cout << "tuweleme gunini sanap otyrsynmy?! :) dogry " << endl;
            dogry = dogry + 1;
        } else {
            cout << "Biz barkak 25-ne gutaryady. Yalnysh!" << endl;
        }
    }

    cout << "Sen " << dogry << " sany soragy dogry bildin." << endl;
    if( dogry == 0 ) {
        cout << "men bolsam utanardym..." << endl;
    }
    if( dogry==1 ) {
        cout << "bolyarlay birini bilsen hem." << endl;
    }
    if( dogry==2) {
        cout << "Huh?! senin mugallymyn kim?" << endl;
    }
    system("pause");
    return 0;
}
```