C++ algoritmi Cheat Sheet

by [deleted] via cheatography.com/41971/cs/14968/

STRUCTURA ELEMENTARA A PROGRAMELOR

```
# include <iostream>
using namespace std;
int main
{ ....
....
}
```

CEL MAI MARE DIVIZOR COMUN

```
while (b!=0)
{ r=a%b;
a=b;
b=r;
}
cout<<"cel mai mare divizor comun dintre"-
<<a<<"si"<<b<<"este"<<a;
```

SUMA CIFRELOR UNUI NUMAR

```
while (n!=0)
{ u.c=n%10;
s=s+u.c;
n=n/10;
}
cout<<"suma cifrelor numarului"<<n<<"e-
ste"<<s;
```

Variabila s se declara initial cu 0.

NUMERE PRIME

```
for (i=2; i<n/2; i++)
if (n%i==0)
k++;
if (k==0)
cout<<"numarul"<<n<<"este prim";
```

Variabila k se declara initial cu 0.

DIVIZORII UNUI NUMAR

```
for (i=1; i<n; i++)
if (n%i==0)
cout<<"divizorii numarului"<<n<<"sunt"<<i;
```

DESCOMPUNEREA IN FACTORI

```
while (n!=0)
{ u.c=n%10;
n=n/10;
}
```

MAXIMUL DINTRE DOUA NUMERE

```
if (a>b)
max=a;
else max=b;
cout<<"maximul dintre"<<a<<"si"<<b<<"-
este"<<max;
```

MINIMUL DINTRE DOUA NUMERE

```
if (a<b)
min=a;
else min=b;
cout<<"minimul dintre"<<a<<"si"<<b<<"est-
e"<<min;
```

NUMERE PARE

```
if (n%2==0)
cout<<"numarul"<<n<<"este par";
```

NUMERE IMPARE

```
if (n%2==1)
cout<<"numarul"<<n<<"este impar";
```

PRODUSUL CIFRELOR UNUI NUMAR

```
while (n!=0)
{ u.c=n%10;
p=p*u.c;
n=n/10;
}
```

Variabila p se declara initial cu 1.

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