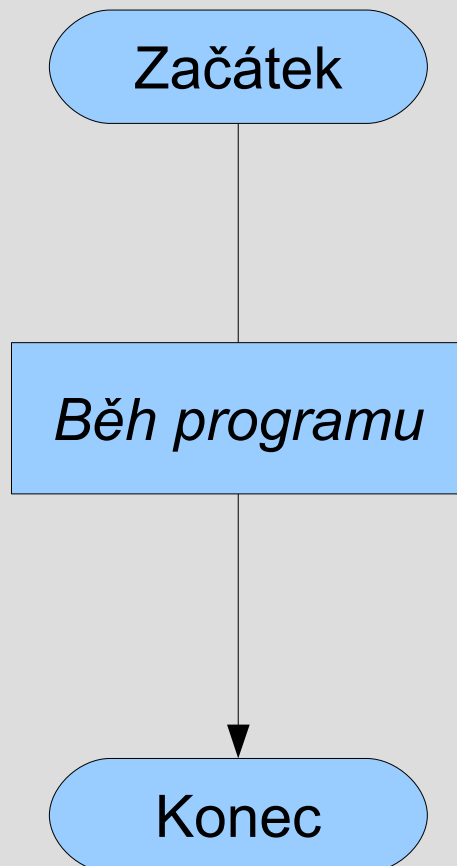


Přepis VD do jazyka C

- Základní kostra
- Proměnné
- Vstup / Výstup
- Větvení
- Cykly
- Funkce
- Pole

Základní kostra

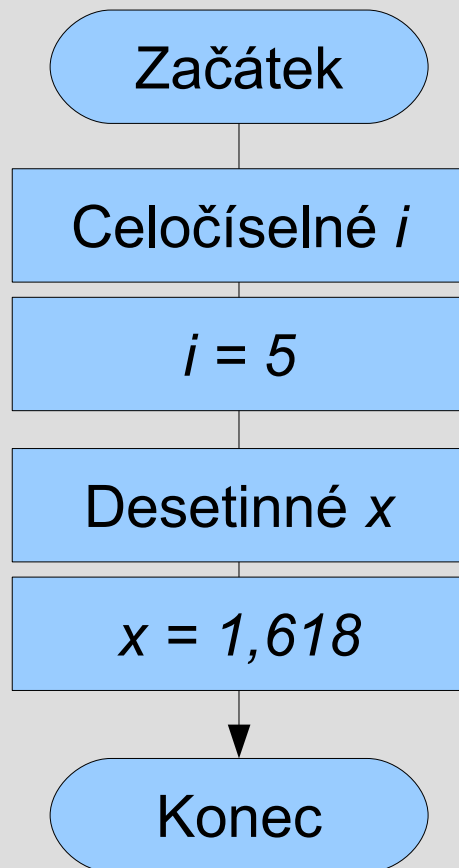


```
#include <stdio.h>

int main()
{
    // Beh programu

    return 0;
}
```

Proměnné



```
#include <stdio.h>

int main()
{
    int i;
    i = 5;

    float x;
    x = 1.618;

    return 0;
}
```

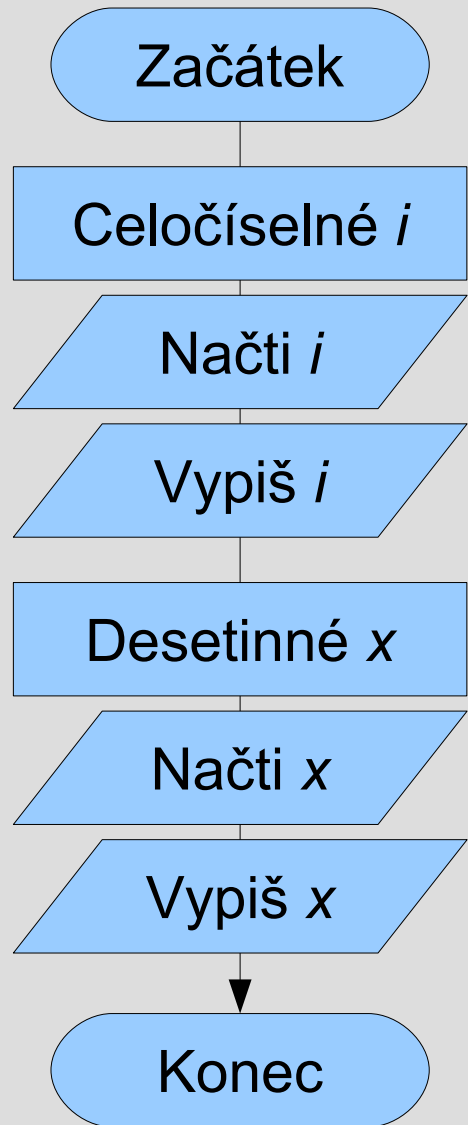


```
#include <stdio.h>

int main()
{
    int i = 5;
    float x = 1.618;

    return 0;
}
```

Vstup / výstup



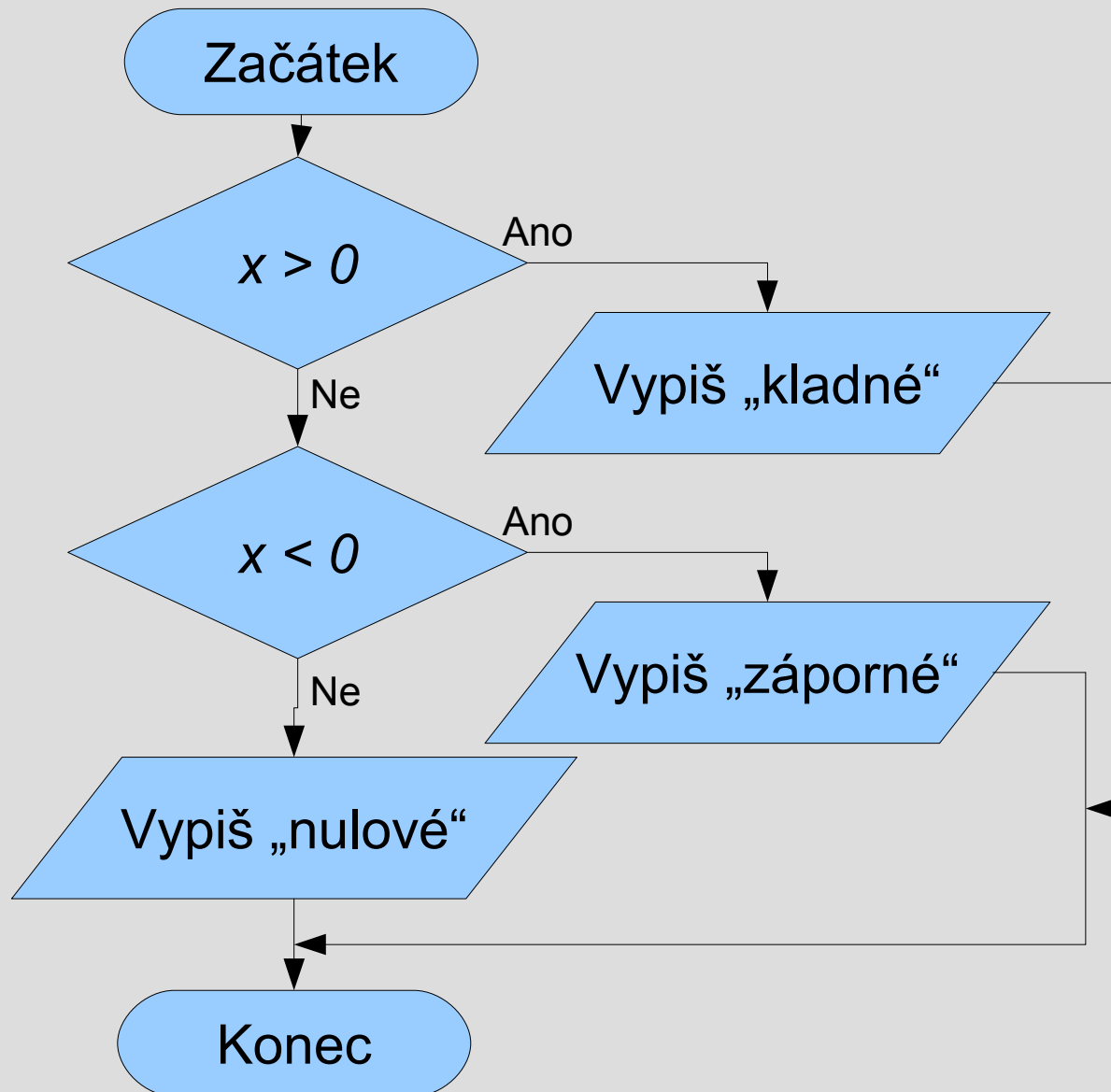
```
#include <stdio.h>

int main()
{
    int i;
    scanf("%d", &i);
    printf("%d\n", i);

    float x;
    scanf("%f", &x);
    printf("%f\n", x);

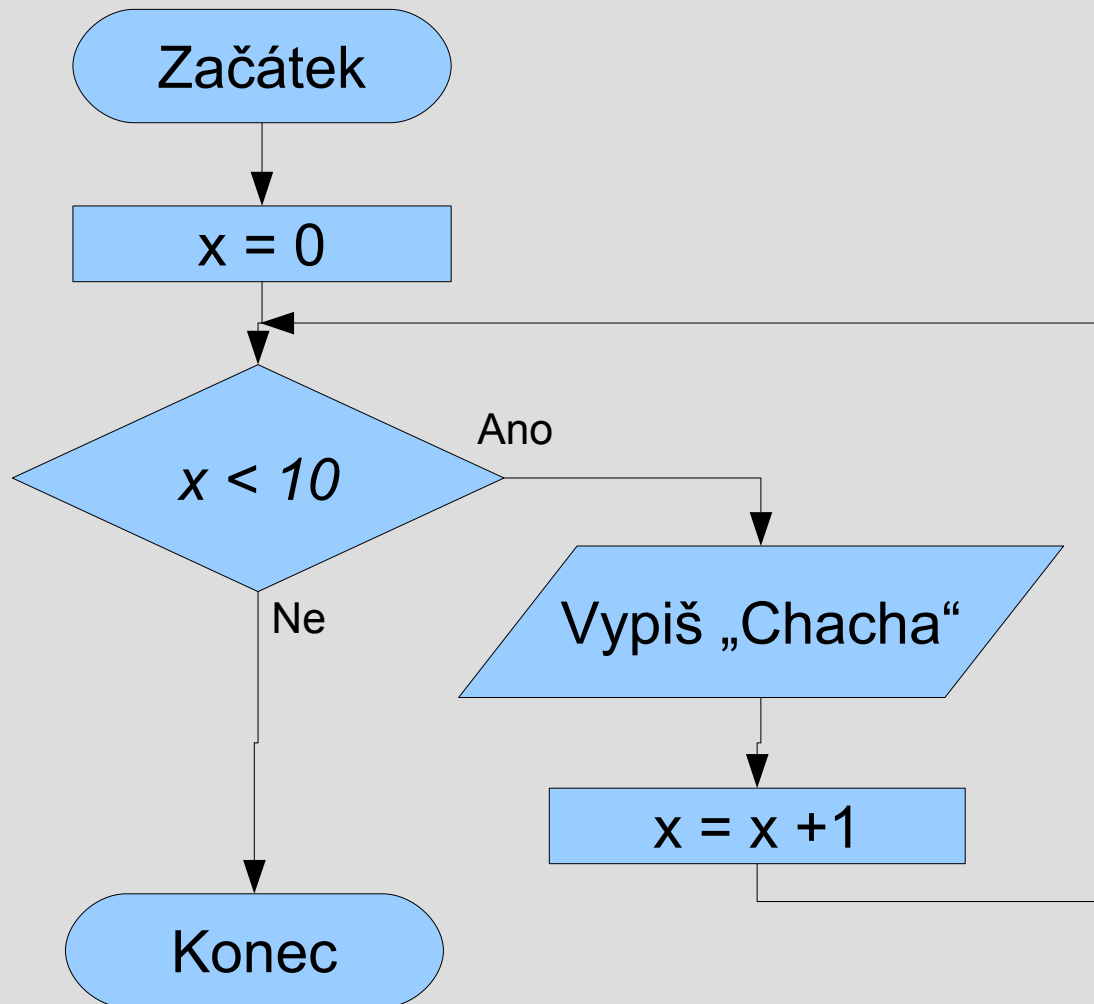
    return 0;
}
```

Větvení



```
if (x > 0)
{
    printf("kladne");
}
else if (x < 0)
{
    printf("zaporne");
}
else
{
    printf("nulove");
}
```

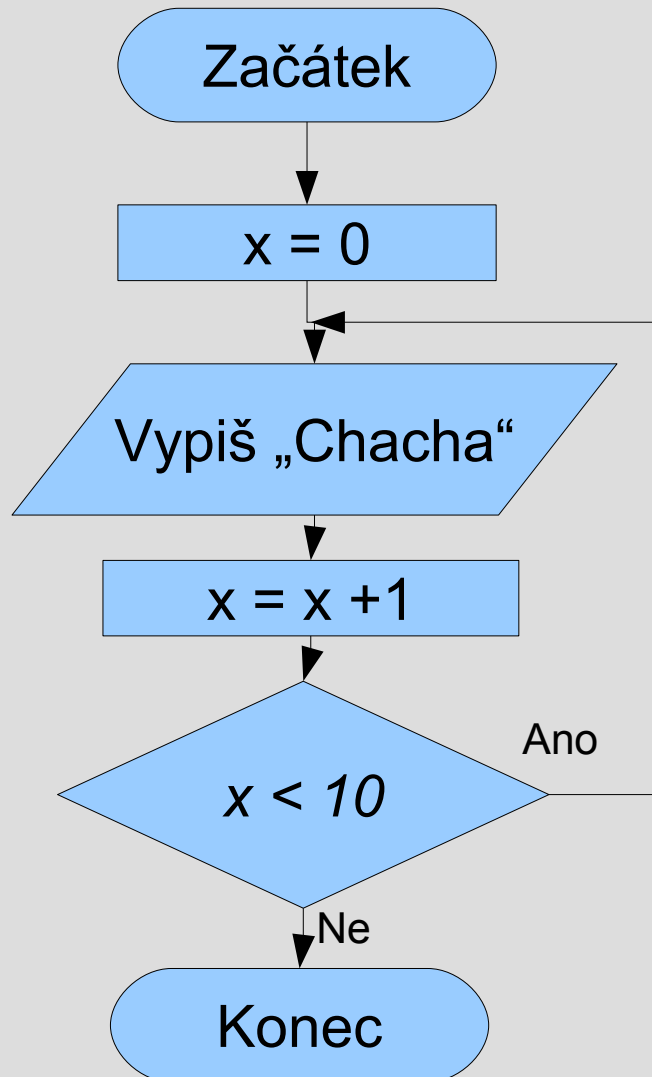
Cyklus while a for



```
int x = 0;
while (x < 10)
{
    printf("Chacha");
    ++x;
}
```

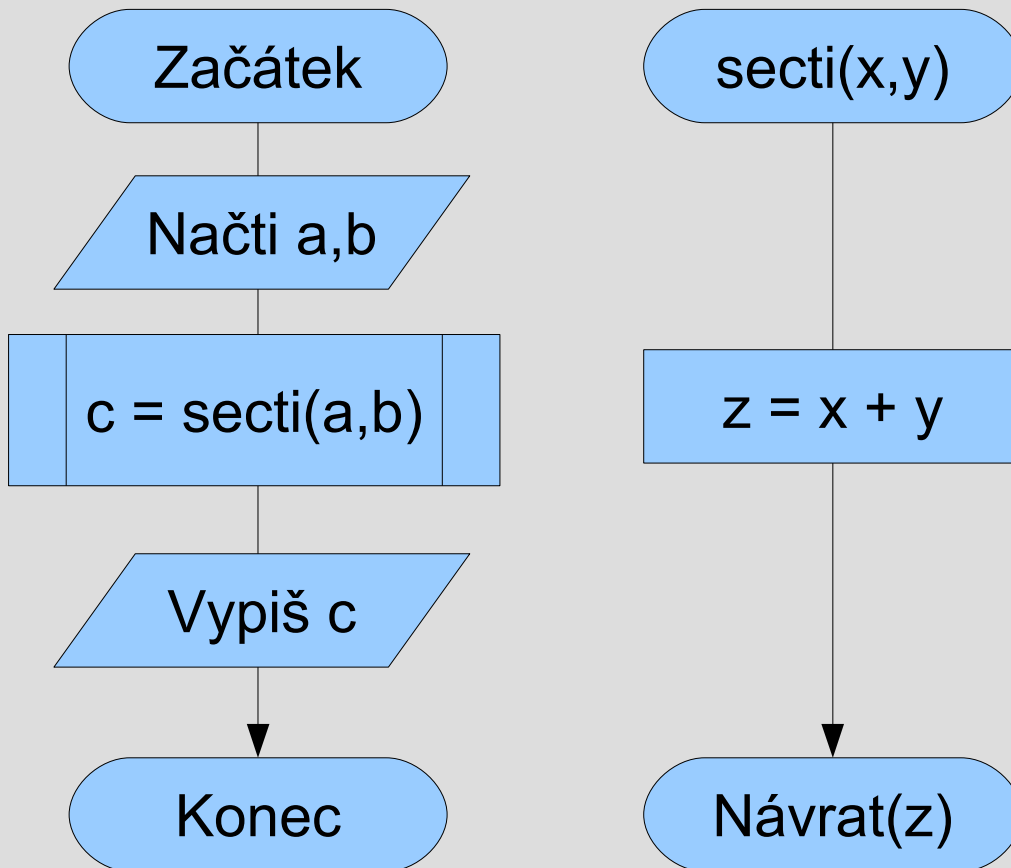
```
for (int x = 0; x < 10; ++x)
{
    printf("Chacha");
}
```

Cyklus do-while



```
int x = 0;
do
{
    printf("Chacha");
    ++x;
}
while (x < 10);
```

Funkce

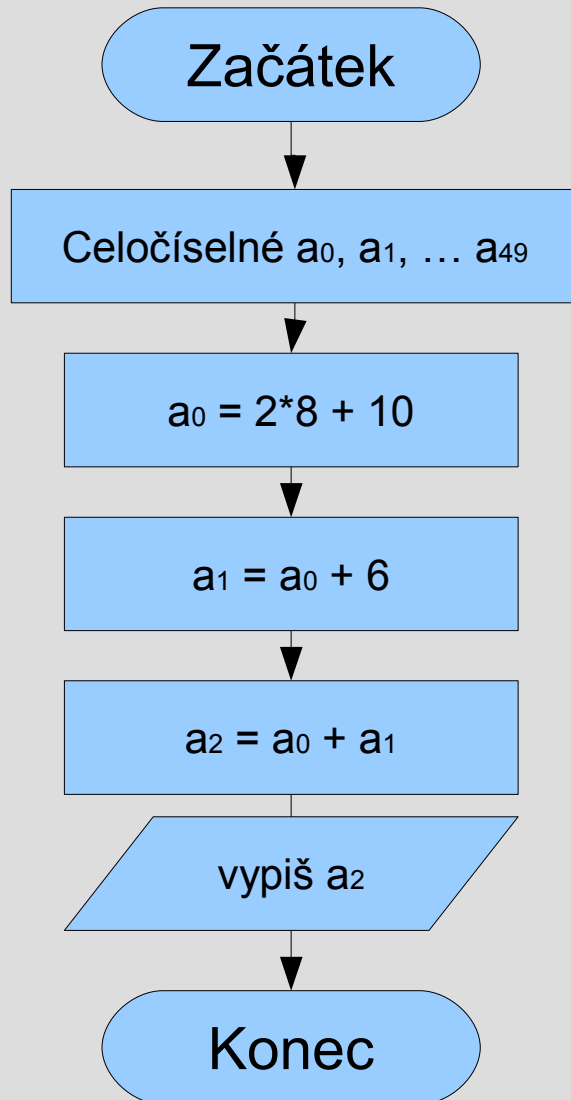


```
#include <stdio.h>
#include <stdlib.h>

int secti(int x, int y)
{
    int z = x + y;
    return z;
}

int main()
{
    int a,b,c;
    scanf("%d %d", &a, &b);
    c = secti(a,b);
    printf("%d\n", c);
    system("pause");
    return 0;
}
```


Pole



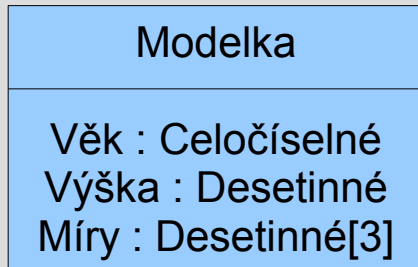
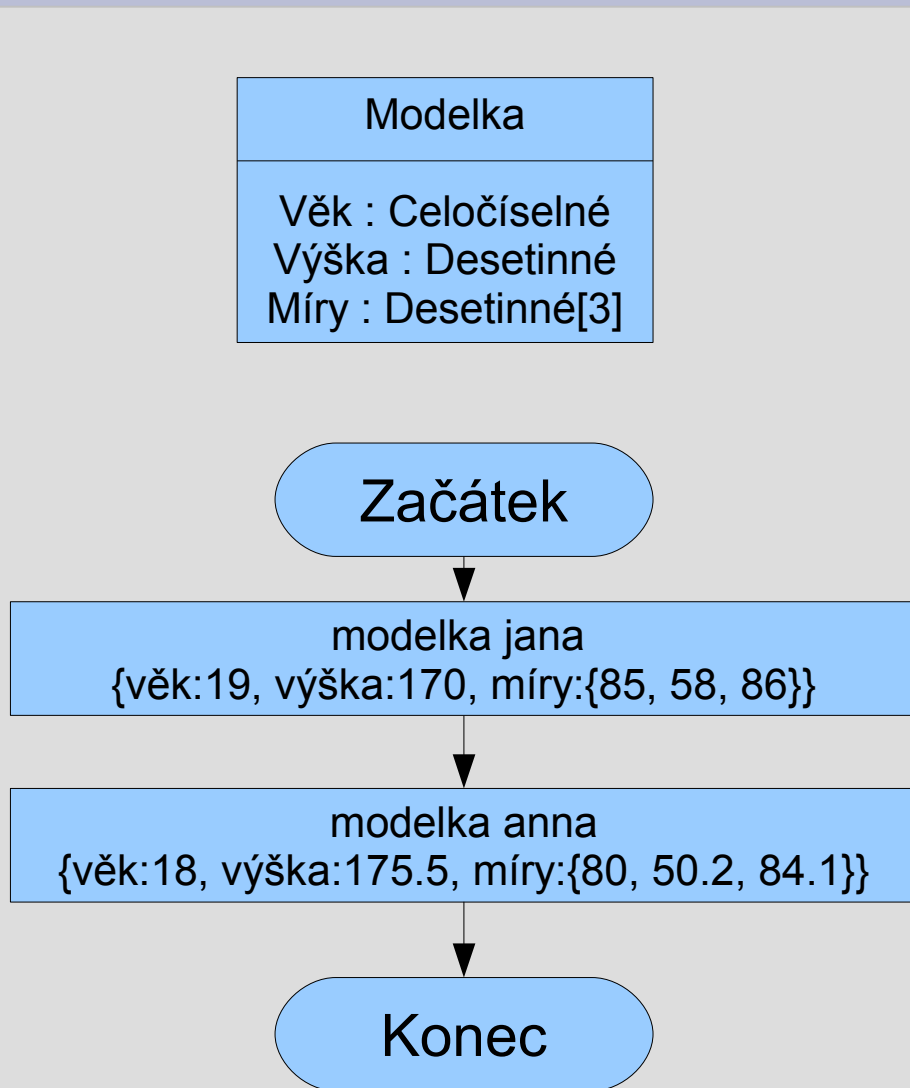
```
#include <stdio.h>

int main()
{
    int a[50];
    a[0] = 2*8 + 10;
    a[1] = a[0] + 6;
    a[2] = a[0] + a[1];

    printf("%d", a[2]);

    return 0;
}
```

Struktury

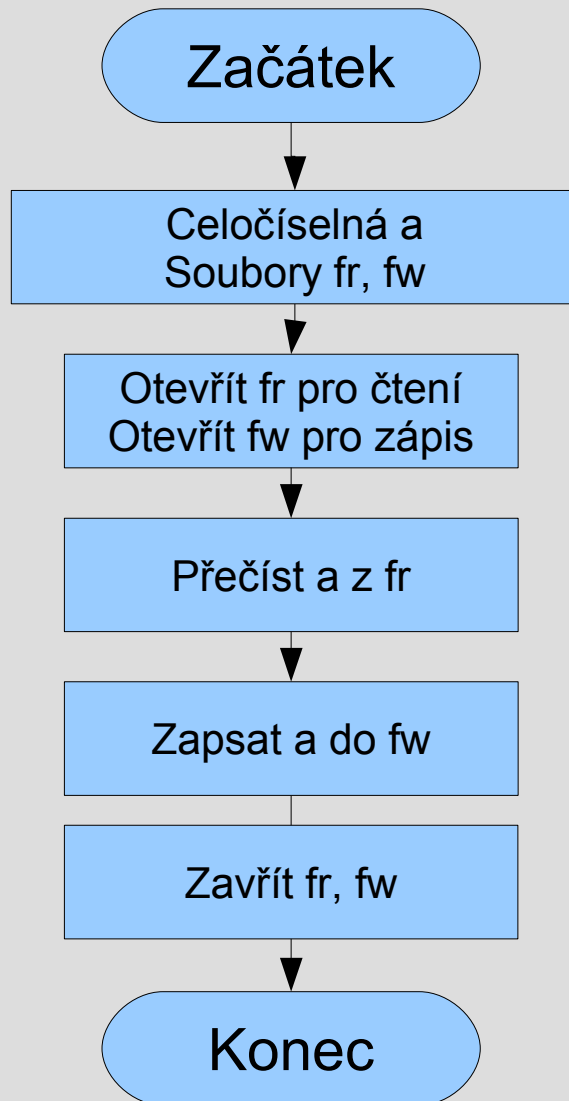


```
#include <stdio.h>

struct modelka
{
    int vek;
    float vyska;
    float miry[3];
};

int main()
{
    modelka jana, anna;
    jana.vek = 19; jana.vyska = 170;
    jana.miry[0] = 85;
    jana.miry[1] = 58;
    jana.miry[2] = 86;
    anna.vek = 18; anna.vyska = 175.5;
    anna.miry[0] = 80;
    anna.miry[1] = 50.2;
    anna.miry[2] = 84.1;
}
```

Práce se soubory



```
#include <stdio.h>

int main()
{
    FILE *fr, *fw;
    int a;

    fr = fopen("in.txt", "r");
    fw = fopen("out.txt", "w");

    fscanf(fr, "%d", &a);
    fprintf(fw, "%d", a);

    fclose(fr);
    fclose(fw);

    return 0;
}
```