

```

#include <stdio.h>
int main() {
    int n, i, sum = 0;
    do {
        printf("Enter a positive integer: ");
        scanf("%d", &n);
    }
    while (n <= 0);
    for(i=1; i <= n; ++i) {
        sum += i; // sum = sum+i;
    }
    printf("Sum = %d", sum);
    return 0;
}
  
```



#include<stdio.h>

PROJEKTOVANJE ALGORITAMA

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Konsultacije: utorak, kabinet 15, 14:00 – 16:00

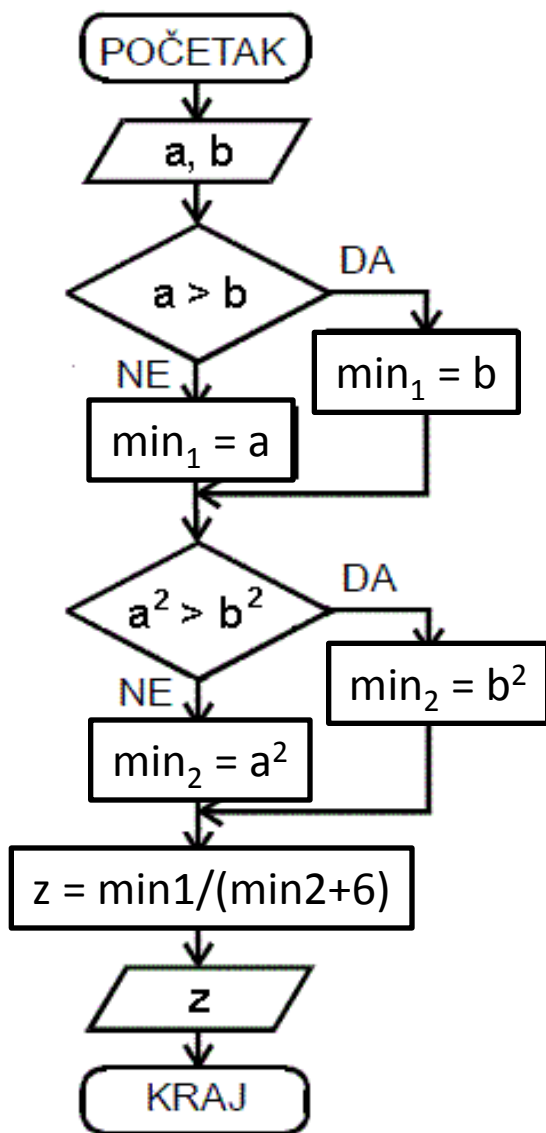
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VISOKA
POSLOVNA
ŠKOLA
STRU KOVNIH
STUDIJA
NOVI SAD

Zadatak 1. Za učitane a i b naći z po formuli:

$$z = \frac{\min(a, b)}{\min(a^2, b^2) + 6}$$



```
#include <stdio.h>

main() {
    float a,b,z,min1,min2;

    printf("Unesite broj A: ");
    scanf("%f",&a);

    printf("Unesite broj B: ");
    scanf("%f",&b);

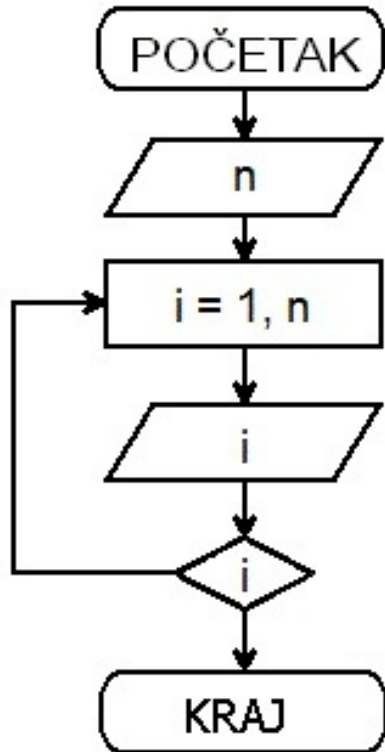
    if (a>b) {
        min1=b;
    }else{
        min1=a;
    }

    if (a*a>b*b) {
        min2=b*b;
    }else{
        min2=a*a;
    }

    z=min1/(min2+6);

    printf("\n\tZ je: %.2f",z);
}
```

Zadatak 2. Ispisati prvih n prirodnih brojeva



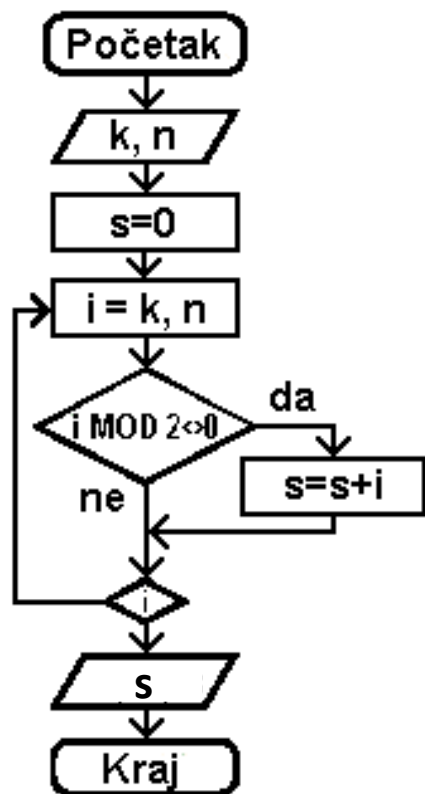
```
#include <stdio.h>

void main() {
    int i, n;

    printf("Unesite broj n: ");
    scanf("%d", &n);

    printf("\nSvi prirodni brojevi do %d su:", n);
    for(i=1; i<=n; i++)
    {
        printf("\n %d", i);
    }
}
```

Zadatak 3. Izračunati sumu neparnih prirodnih brojeva od k do n



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

```
main() {
```

```
    int i, k, n, s=0;
```

```
    printf("Unesite broj k: ");
```

```
    scanf("%d", &k);
```

```
    printf("Unesite broj n: ");
```

```
    scanf("%d", &n);
```

```
    for(i=k; i<=n; i++)
```

```
    {
```

```
        if(i%2 != 0)
```

```
        {
```

```
            s = s + i;
```

```
            //s+=i; // 2. nacin
```

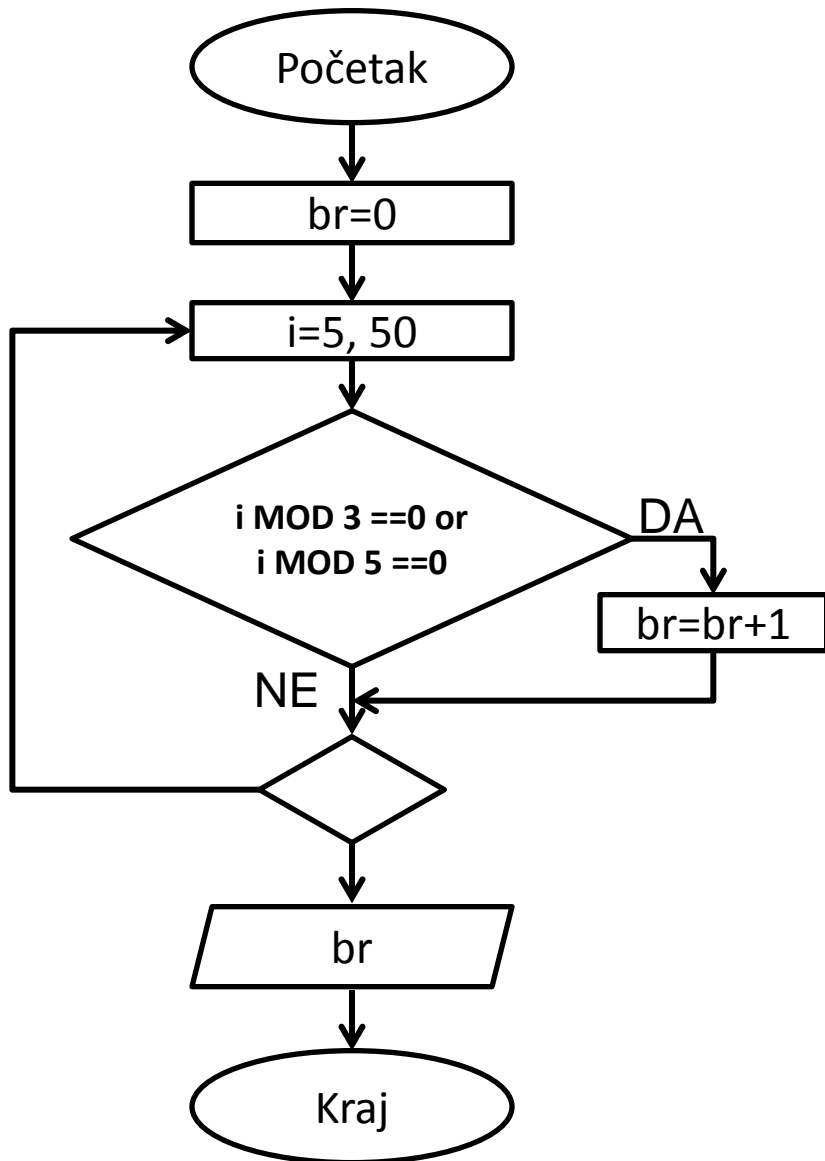
```
        }
```

```
    }
```

```
    printf("\nSuma neparnih brojeva od k do n je: %d", s);
```

```
}
```

Zadatak 4. Prebrojati koliko je brojeva od 5 do 50 koji su deljivi sa 3 ili sa 5.



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

```
main() {
```

```
    int i, brojac = 0;
```

```
    for(i=5; i<=50; i++)
```

```
    {
```

```
        if(i%3 == 0 || i%5 == 0)
```

```
        {
```

```
            brojac = brojac + 1;
```

```
            //brojac+= 1; // 2. nacin
```

```
            //brojac++; // 3. nacin - najvise se koristi
```

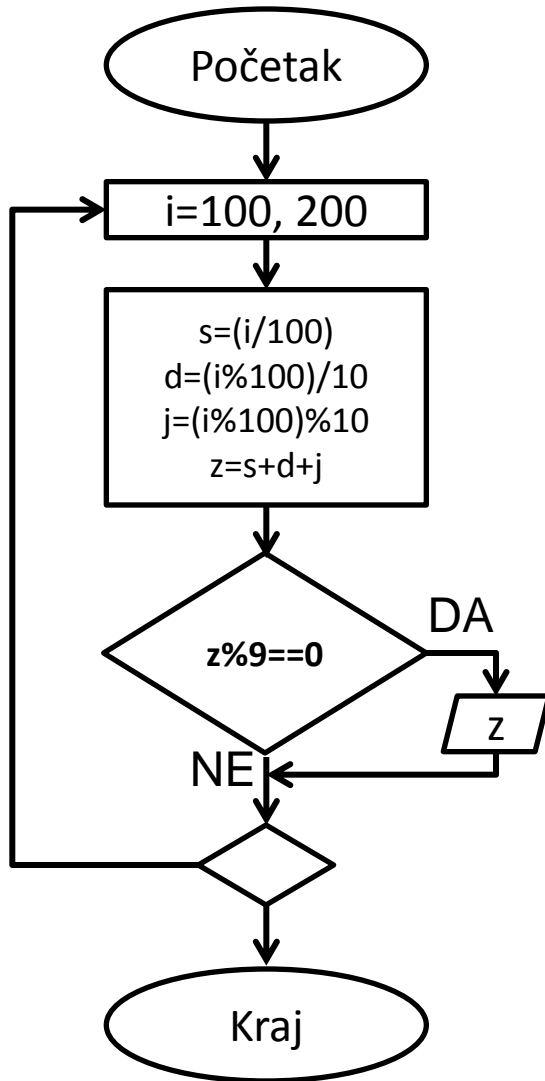
```
        }
```

```
    }
```

```
    printf("Brojeva deljivih sa 3 ili sa 5 ima: %d \n", brojac);
```

```
}
```

Zadatak 5. Ispisati sve brojeve od **100** do **200** čiji je zbir cifara deljiv sa **9**.



```
#include <stdio.h>

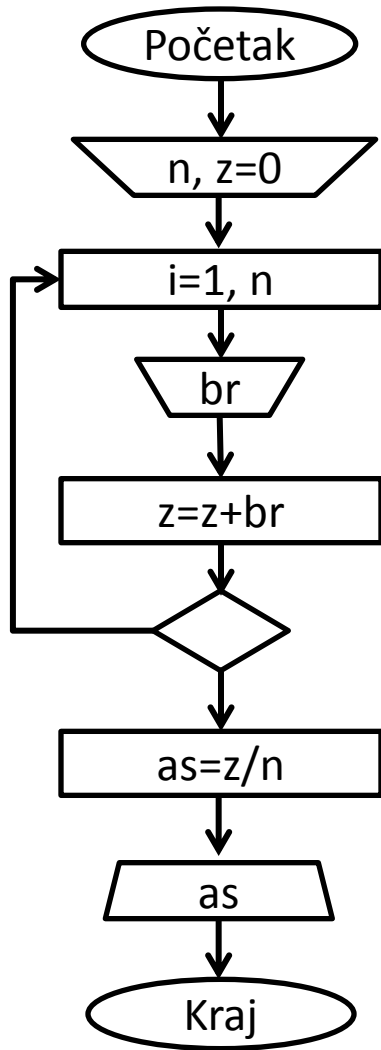
void main() {
    int i, s, d, j, z;

    for (i = 100; i<=200; i++) {
        s = i / 100;
        d = (i % 100) / 10;
        j = (i % 100) % 10;

        z = s + d + j;

        if (z % 9 == 0) {
            printf("\nZbir cifara broja %d je deljiv sa 9:", i);
        }
    }
}
```

Zadatak 6. Učitati n brojeva sa tastature. Izračunati i ispisati njihovu aritmetičku sredinu.



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

```
main() {
```

```
    int i, n, br, z;
```

```
    float as;
```

```
    printf("Ucitaj n: ");
```

```
    scanf("%d", &n);
```

```
    for(i=1; i<=n; i++)
```

```
    {
```

```
        printf("\nUcitaj %d. broj: ", i);
```

```
        scanf("%d", &br);
```

```
        z+=br;
```

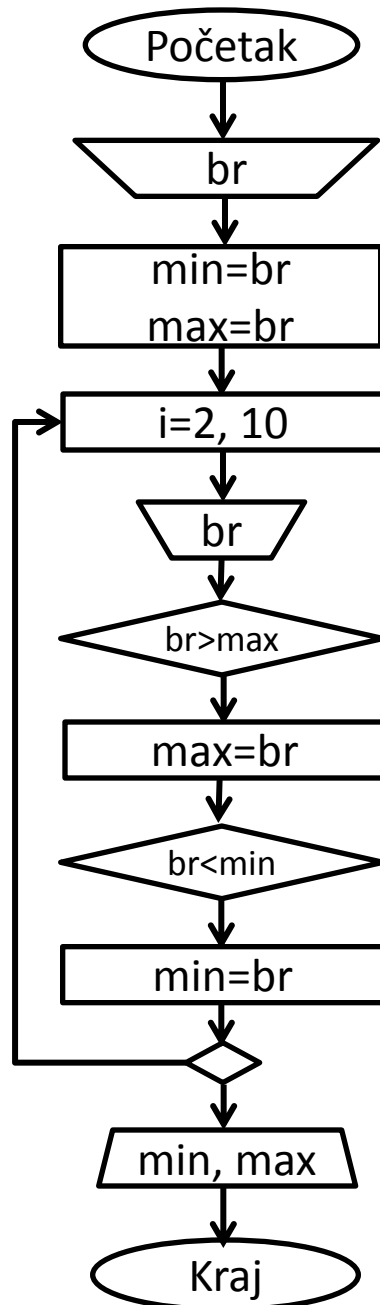
```
    }
```

```
    as = z/n;
```

```
    printf("\nAritmeticka sredina unetih brojeva je: %.2f", as);
```

```
}
```

Zadatak 7. U programu omogućiti unos **10** brojeva. Ispisati **najmanji** i **najveći** od njih.



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

```
void main () {  
    int i, br, min, max;
```

```
    printf ("Unesi 1. broj: ");  
    scanf ("%d", &br);
```

```
    min = br;  
    max = br;
```

```
    for (i=2; i<=10; i++)  
    {  
        printf ("\nUnesi %d. broj: ", i);  
        scanf ("%d", &br);
```

```
        if (br > max)  
            max = br;
```

```
        if (br < min)  
            min = br;
```

```
    }  
    printf ("\nNajmanji broj je %d", min);  
    printf ("\nNajveci broj je %d", max);
```

```
}
```