Квадратен корен (2)

```java
public static int sqrt (int n){
    koren (n, 1, n);
}
```
public static int koren(int n, int down, int up) {
    if (down*down == n) {
        return down;
    } else if (up*up == n) {
        return up;
    } else if ((up-down)==1){
        return down;
    } else {
        int mid=(up+down)/2;
        if (mid*mid==n) {
            return mid;
        } else if (mid*mid > n) {
            return koren(n, down, mid);
        } else {
            return koren(n, mid, up);
        }
    }
}

public static int koren(int n) {
    int down = 1;
    int up = n;
    if (down*down == n) return down;
    if (up*up == n) return up;
    while (up-down != 1) {
        int mid=(up+down)/2;
        if (mid*mid==n) {
            return mid;
        } else if (mid*mid > n) {
            up=mid;
        } else {
            down=mid;
        }
    }
    return down;
}
Квадратен корен (1)

```java
public static int koren(int n, int i){
    if (i*i==n) {
        return i;
    } else {
        return koren(n, i+1);
    }
}
```
Фибоначи (1)

```java
public static int recFib(int n) {
    if (n == 0 || n == 1) {
        return n;
    } else {
        return recFib(n-1) + recFib(n-2);
    }
}
```

Факторијал + Сигма

```java
public static int f&s(int n) {
    System.out.println(n + “=” + faktorijal(n));
    if (n == 1) {
        return 1;
    } else {
        return n + f&s(n-1);
    }
}
```
public static int fib(int n){
    int a, b, t;
    if (n == 0 || n == 1) {
        return n;
    }
    for (int i = 2; i < n; i++){
        t = a + b;
        a = b;
        b = t;
    }
    return t;
}