

## MUSTAQIL ISHLASH UCHUN MASALALAR YECHIMLARI

1-masala. Yechim (Kadane algoritmi)

```
int best = a[0], cur = a[0];
for (int i = 1; i < n; i++) {
    cur = Math.max(a[i], cur + a[i]);
    best = Math.max(best, cur);
}
System.out.println(best);
```

2-masala. Yechim (String + massiv)

```
String s = br.readLine();
int[] cnt = new int[10];

for (char c : s.toCharArray()) {
    cnt[c - '0']++;
}

int ans = 0;
for (int i = 1; i <= 9; i++) {
    if (cnt[i] > cnt[ans]) ans = i;
}
System.out.println(ans);
```

3-masala. Yechim (mod indeks)

```
k %= n;
int[] b = new int[n];
for (int i = 0; i < n; i++) {
    b[i] = a[(i + k) % n];
}
```

4-masala. Yechim

```
int cur = 1, best = 1;
for (int i = 1; i < s.length(); i++) {
    if (s.charAt(i) == s.charAt(i - 1)) {
        cur++;
        best = Math.max(best, cur);
    } else cur = 1;
}
System.out.println(best);
```

5-masala. Yechim (Two pointers)

```
int i = 0, j = 0;
StringBuilder sb = new StringBuilder();

while (i < n && j < m) {
    if (a[i] <= b[j]) sb.append(a[i++]).append(" ");
    else sb.append(b[j++]).append(" ");
}
while (i < n) sb.append(a[i++]).append(" ");
while (j < m) sb.append(b[j++]).append(" ");

System.out.println(sb);
```

6-masala. Yechim (oddiy tekshiruv)

```

for (int x = L; x <= R; x++) {
    if (x < 2) continue;
    boolean prime = true;
    for (int i = 2; i * i <= x; i++) {
        if (x % i == 0) {
            prime = false;
            break;
        }
    }
    if (prime) System.out.print(x + " ");
}

```

#### 7-masala. Yechim (TreeMap)

```

TreeMap<String, Integer> map = new TreeMap<>();
StringTokenizer st = new StringTokenizer(br.readLine());

while (st.hasMoreTokens()) {
    String w = st.nextToken();
    map.put(w, map.getOrDefault(w, 0) + 1);
}

for (String key : map.keySet()) {
    System.out.println(key + " " + map.get(key));
}

```

#### 8-masala. Yechim (belgilash)

```

boolean[] seen = new boolean[n + 2];
for (int x : a) {
    if (x > 0 && x <= n + 1) seen[x] = true;
}

for (int i = 1; i <= n + 1; i++) {
    if (!seen[i]) {
        System.out.println(i);
        break;
    }
}

```

#### 9-masala. Yechim (custom sort)

```

Integer[] b = new Integer[n];
for (int i = 0; i < n; i++) b[i] = a[i];

Arrays.sort(b, (x, y) -> {
    int sx = 0, sy = 0;
    int tx = x, ty = y;
    while (tx > 0) { sx += tx % 10; tx /= 10; }
    while (ty > 0) { sy += ty % 10; ty /= 10; }
    if (sx != sy) return sx - sy;
    return x - y;
});

for (int x : b) System.out.print(x + " ");

```

#### 10-masala. Yechim (counter)

```

int bal = 0;
boolean ok = true;
for (char c : s.toCharArray()) {
    if (c == '(') bal++;
}

```

```
    else bal--;
    if (bal < 0) {
        ok = false;
        break;
    }
}
if (bal != 0) ok = false;
System.out.println(ok ? "YES" : "NO");
```