

MUSTAQIL ISHLASH UCHUN MASALALAR YECHIMLARI

1-masala. Yechim (Sliding Window)

```
int l = 0;
long sum = 0;
int ans = 0;

for (int r = 0; r < n; r++) {
    sum += a[r];
    while (sum > S) {
        sum -= a[l++];
    }
    ans = Math.max(ans, r - l + 1);
}
System.out.println(ans);
```

2-masala. Yechim (Sort)

```
Arrays.sort(a);
int best = Integer.MAX_VALUE;
for (int i = 1; i < n; i++) {
    best = Math.min(best, a[i] - a[i - 1]);
}
System.out.println(best);
```

3-masala. Yechim (Sliding Window + chastota)

```
int[] need = new int[26];
int[] cur = new int[26];

for (char c : t.toCharArray()) need[c - 'a']++;

int k = t.length();
for (int i = 0; i < s.length(); i++) {
    cur[s.charAt(i) - 'a']++;
    if (i >= k) cur[s.charAt(i - k) - 'a']--;
    if (Arrays.equals(cur, need)) {
        System.out.println("YES");
        return;
    }
}
System.out.println("NO");
```

4-masala. Yechim (Prefix Sum)

```

int[] pref = new int[n + 1];
for (int i = 1; i <= n; i++) {
    pref[i] = pref[i - 1] + (a[i - 1] != 0 ? 1 : 0);
}

```

```

int ans = pref[r] - pref[l - 1];

```

5-masala. Yechim (Sliding Window)

```

int l = 0;
long sum = 0;
int ans = Integer.MAX_VALUE;

for (int r = 0; r < n; r++) {
    sum += a[r];
    while (sum >= S) {
        ans = Math.min(ans, r - l + 1);
        sum -= a[l++];
    }
}
System.out.println(ans == Integer.MAX_VALUE ? 0 : ans);

```

6-masala. Yechim (Greedy)

```

long total = 0;
for (int x : a) total += x;

if (total % k != 0) {
    System.out.println("NO");
    return;
}

long need = total / k;
long cur = 0;
int cnt = 0;

for (int x : a) {
    cur += x;
    if (cur == need) {
        cnt++;
        cur = 0;
    }
}
System.out.println(cnt == k ? "YES" : "NO");

```

7-masala. Yechim (Prefix Sum + HashMap)

```

HashMap<Long, Integer> map = new HashMap<>();
long sum = 0;

for (int x : a) {
    sum += x;
    map.put(sum, map.getDefault(sum, 0) + 1);
}

long ans = 0;
int best = 0;
for (long key : map.keySet()) {
    if (map.get(key) > best) {
        best = map.get(key);
        ans = key;
    }
}
System.out.println(ans);

```

8-masala. Yechim (Prefix Sum + HashMap)

```

HashMap<Long, Integer> map = new HashMap<>();
map.put(0L, 1);

long sum = 0;
long cnt = 0;

for (int x : a) {
    sum += x;
    cnt += map.getDefault(sum - S, 0);
    map.put(sum, map.getDefault(sum, 0) + 1);
}
System.out.println(cnt);

```

9-masala. Yechim (Prefix + HashMap)

```

HashMap<Integer, Integer> first = new HashMap<>();
first.put(0, -1);

int bal = 0, ans = 0;
for (int i = 0; i < n; i++) {
    bal += (a[i] == 1 ? 1 : -1);
    if (first.containsKey(bal)) {
        ans = Math.max(ans, i - first.get(bal));
    } else {
        first.put(bal, i);
    }
}

```

```
}  
System.out.println(ans);
```

10-masala. Yechim (Greedy)

```
int changes = 0;  
int last = Integer.MIN_VALUE;  
  
for (int x : a) {  
    if (x > last) {  
        last = x;  
    } else {  
        changes++;  
        last++;  
    }  
}  
System.out.println(changes);
```