

KI201-T05

Instructions

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Vremenska složenost algoritma:

```
for (int i = 1; i <= n; i++) {  
    for (int j = 1; j <= i; j++) {  
        k = k + i + j;  
    }  
}
```

Choose one of the following answers.

- ☐ $O(\log n)$
- ☒ $O(n^2)$
- ☐ $O(n)$

*

 $O(1)$ je _____.

Choose one of the following answers.

- ☐ linearno-logaritamsko vreme
- ☐ linearno vreme
- ☐ logaritamsko vreme
- ☒ konstantno vreme

*

Vremenska složenost algoritma Sito Eratostena je _____.

Choose one of the following answers.

- ☐ $O(n)$
- ☐ $O(2^n)$
- ☐ $O(\log n)$
- ☒ $O(n^{1.5}/\log n)$

*

Vremenska složenost algoritma:

```
i = 1;  
while (i <= n) {  
    sum = sum + i;  
    i = i * 2;  
}
```

Choose one of the following answers.

- ☐ $O(n)$
- ☐ $O(\log n)$
- ☒ $O(n^2)$

*

Vremenska složenost Euklidovog algoritma je _____.

Choose one of the following answers.

- ☒ $O(\log n)$
- ☐ $O(n)$
- ☐ $O(2^n)$
- ☐ $O(n^2)$

Submit all