1

2.For 10n log n <=

Log n <=

<=

n <=

<=

n <= 10

for n0 = 10 A is better than B

3. R-1.6 < < < < < < < < < < <

4. R-1.10 **Algorithm** Loop1(n)

s ← 0 O(1)

**for** i ← 1 **to** n **do** O(n)

s ← s+I O(n)

T(n) O(n)

1. R-1.14 **Algorithm** Loop5(n)

s ← 0 O(1)

**for** i ← 1 **to** n2 **do** O(n2)

**for** j ← 1 **to** i **do** O(n3)

s ← s+i O(n3)

T(n) O(n3)

1. Prove =

Let m =

= x

= take log pf both sides

am=

am=

am = a =