

$\Theta(n^2)$

```
public Company() {  
    for(int i = 0; i < 4; i++) {  
        branches.addLast(new Branch());  
    }  
    for(int i = 0; i < 2; i++) {  
        admins.add(new Admin());  
    }  
  
    branches.get(0).setName("A");  
    branches.get(1).setName("B");  
    branches.get(2).setName("C");  
    branches.get(3).setName("D");  
  
    admins.get(0).setEmail("admin1@gmail.com");  
    admins.get(0).setName("Banu");  
    admins.get(0).setSurname("Yurt");  
    admins.get(0).setPassword("123zxc");  
  
    admins.get(1).setEmail("admin2@gmail.com");  
    admins.get(1).setName("Mert");  
    admins.get(1).setSurname("Kayık");  
    admins.get(1).setPassword("1234qwer");  
}
```

➔ Adding an item to the end of the linked list is $O(n)$ but initializing branches n times so $\Theta(n^2)$.

➔ Adding an item to the end of an ArrayList is $O(1)$ but initializing admins n times so $\Theta(n)$