|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Số lần n** | n=0 | n=1 | n=2 | n=3 |
| **Số phép gán** | 1 | (m+1)+1 | 2(m+1)+1 | 3(m+1)+1 |

**Bài 1:**

**+ đếm phép gán:**

Lần n=n thì có n(m+1)+1 phép gán. Vậy m=n thì sẽ có n(n+1)+1 phép gán ~ O(n2).

**+ đếm phép so sánh:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Số lần n** | n=0 | n=1 | n=2 | n=3 |
| **Số phép so sánh** | 1 | 2m+1 | 2\*2m+1 | 3\*2m+1 |

Lần n=n thì có n\*2m+1 phép so sánh. Vậy m=n thì sẽ có n\*2n+1 phép so sánh ~ O(n2).

Suy ra, độ phức tạp của thuật toán là O(n2).

**Bài 2:**

**+ đếm phép gán:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Số lần n** | n=0 | n=1 | n=2 | n=3 |
| **Số phép gán** | 2 | (2n+1)+1 | 2(2n+1)+1 | 3(2n+1)+1 |

Có n(2n+1)+1 phép gán ~ O(n2).

**+ đếm phép so sánh:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Số lần n** | n=0 | n=1 | n=2 | n=3 |
| **Số phép so sánh** | 1 | (n+1)+1 | 2(n+1)+1 | 3(n+1)+1 |

Có n(n+1)+1 phép so sánh ~ O(n2).

Suy ra, độ phức tạp của thuật toán là O(n2).

**Bài 3:**

Độ phức tạp của thuật toán làO(n).

**Bài 4:**

Độ phức tạp của thuật toán làO(n).

**Bài 5:**

Độ phức tạp của thuật toán làO(n).