Thành viên nhóm 7:

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Ex1:

<u>Bài 1:</u>

Giải:

```
T_5 = O(1)
```

$$T_{45} = 9 * O(1) = O(1)$$

$$T_3 = O(n)$$

$$T_2 = O(n)$$

$$T_{2345} = O(n) * O(n) * O(1) = O(n ^ 2)$$

$$T_{12345} = O(n^2) * O(1) = O(n^2)$$

<u>Bài 2:</u>

Giải:

```
T_1 = O(1)
```

$$T_2 = O(1)$$

$$T_3 = O(n)$$

$$\mathsf{T_4}=\mathsf{O}(1)$$

$$T_5 = O(1)$$

$$T_6 = O(1)$$

$$T_8 = O(1)$$

$$\Rightarrow T_{1234568} = O(n)$$

<u>Ex2:</u>

<u>Câu 3:</u>

```
sum = 0;
                                    (1 g)
    i = 1;
                                    (1 g)
    while(i<=n) {
                                    (n+1 ss)
        j = n-i;
                                    (n g)
        while(j <= i) {
                                    (ai + 1 ss)
            sum = sum+j;
                                    (ai g)
                                    (ai g)
            j=j+1;
        i=i+1;
                                    (n g)
```

<u>Câu 4:</u>

Cau 4:
• So sain (n) =
$$n + 1 + \frac{n^3}{2}$$

• Fan (n) = $2n + 2 + \frac{n^3}{2}$
• T(n) $\approx 30 \sin (n) + 9 \sin (n) = 4n + 3 + n^3$

<u>Câu 5</u>:

Caus:

So low law and while
$$(T <= i^*i) la:$$

$$= \sum_{i=1}^{n} i^{i} - (n - i^{i}) + 4 \text{ is } i^{i} \ge n - i^{i}$$

$$= \sum_{i=1}^{n} 2i^{i} - n + 4 \text{ is } i \ge \sqrt{\frac{n}{L}}$$

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$$= \sum_{i=1}^{n} (ai + A)$$

$$= 2n + 4 + \sum_{i=1}^{n} (ai + A)$$

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$$= 2n + 2 + 2 \cdot \sum_{i=1}^{n} (ai + A)$$

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