Câu 1:

a) Sắp xếp tìm kiếm

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 1 | 10 | 6 | 3 | 8 | 7 | 13 | 20 |  |
| 1 | 2 | 10 | 6 | 3 | 8 | 7 | 13 | 20 | swap 1 vs 2 |
| 1 | 2 | 3 | 6 | 10 | 8 | 7 | 13 | 20 | swap 3 vs 10 |
| 1 | 2 | 3 | 6 | 10 | 8 | 7 | 13 | 20 |  |
| 1 | 2 | 3 | 6 | 7 | 8 | 10 | 13 | 20 | swap 7 vs 10 |

b)Sắp xếp chèn

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 1 | 10 | 6 | 3 | 8 | 7 | 13 | 20 |
| 1 | 2 | 10 | 6 | 3 | 8 | 7 | 13 | 20 |
| 1 | 2 | 6 | 10 | 3 | 8 | 7 | 13 | 20 |
| 1 | 2 | 3 | 6 | 10 | 8 | 7 | 13 | 20 |
| 1 | 2 | 3 | 6 | 8 | 10 | 7 | 13 | 20 |
| 1 | 2 | 3 | 6 | 7 | 8 | 10 | 13 | 20 |

c)Sắp xếp nổi bọt

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 1 | 10 | 6 | 3 | 8 | 7 | 13 | 20 |
| 1 | 2 | 10 | 6 | 3 | 8 | 7 | 13 | 20 |
| 1 | 2 | 6 | 10 | 3 | 8 | 7 | 13 | 20 |
| 1 | 2 | 6 | 3 | 10 | 8 | 7 | 13 | 20 |
| 1 | 2 | 6 | 3 | 8 | 10 | 7 | 13 | 20 |
| 1 | 2 | 6 | 3 | 8 | 7 | 10 | 13 | 20 |
| 1 | 2 | 3 | 6 | 8 | 7 | 10 | 13 | 20 |
| 1 | 2 | 3 | 6 | 7 | 8 | 10 | 13 | 20 |