

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------|---|-------------|-------|-------|-------|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|
| | | START | END | | | | | | | | | | | | | | | | | | | | |
| | ENQUEUE 25 | | | | | | | | | | | | | | | | | | | | | | |
| | | (First Array) | | | | | | | | | | | | | | | | | | | | | |
| | Index | 0 | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | |
| | Value | 21 | 22 | 18 | 19 | 20 | | | | | | | | | | | | | | | | | |
| | | | END | START | | | | | | | | | | | | | | | | | | | |
| | | (New Overflow Array) | | | | | | | | | | | | | | | | | | | | | |
| | Index | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | |
| | Value | 23 | 24 | 25 | | | | | | | | | | | | | | | | | | | |
| | | | | END | | | | | | | | | | | | | | | | | | | |
| | DEQUEUE (18) | | | | | | | | | | | | | | | | | | | | | | |
| | | (First Array) | | | | | | | | | | | | | | | | | | | | | |
| | Index | 0 | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | |
| | Value | 21 | 22 | | 19 | 20 | | | | | | | | | | | | | | | | | |
| | | | END | | START | | | | | | | | | | | | | | | | | | |
| | | (New Overflow Array) | | | | | | | | | | | | | | | | | | | | | |
| | Index | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | |
| | Value | 23 | 24 | 25 | | | | | | | | | | | | | | | | | | | |
| | | | | END | | | | | | | | | | | | | | | | | | | |
| | DEQUEUE (19) | | | | | | | | | | | | | | | | | | | | | | |
| | | (First Array) | | | | | | | | | | | | | | | | | | | | | |
| | Index | 0 | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | |
| | Value | 21 | 22 | | | 20 | | | | | | | | | | | | | | | | | |
| | | | END | | | START | | | | | | | | | | | | | | | | | |
| | | (New Overflow Array) | | | | | | | | | | | | | | | | | | | | | |
| | Index | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | |
| | Value | 23 | 24 | 25 | | | | | | | | | | | | | | | | | | | |
| | | | | END | | | | | | | | | | | | | | | | | | | |
| | DEQUEUE (20) | | | | | | | | | | | | | | | | | | | | | | |
| | | (First Array) | | | | | | | | | | | | | | | | | | | | | |
| | Index | 0 | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | |
| | Value | 21 | 22 | | | | | | | | | | | | | | | | | | | | |
| | | START | END | | | | | | | | | | | | | | | | | | | | |
| | | (New Overflow Array) | | | | | | | | | | | | | | | | | | | | | |
| | Index | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | |
| | Value | 23 | 24 | 25 | | | | | | | | | | | | | | | | | | | |
| | | | | END | | | | | | | | | | | | | | | | | | | |
| | DEQUEUE (21) | | | | | | | | | | | | | | | | | | | | | | |
| | | (First Array) | | | | | | | | | | | | | | | | | | | | | |
| | Index | 0 | 1 | 2 | 3 | 4 | | | | | | | | | | | | | | | | | |
| | Value | | 22 | | | | | | | | | | | | | | | | | | | | |
| | | | START & END | | | | | | | | | | | | | | | | | | | | |
| | | (New Overflow Array) | | | | | | | | | | | | | | | | | | | | | |
| | Index | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | |
| | Value | 23 | 24 | 25 | | | | | | | | | | | | | | | | | | | |
| | | | | END | | | | | | | | | | | | | | | | | | | |
| | DEQUEUE (22) | | | | | | | | | | | | | | | | | | | | | | |
| | | (First Array gets removed since it is no longer needed) | | | | | | | | | | | | | | | | | | | | | |
| | | (New Overflow Array) | | | | | | | | | | | | | | | | | | | | | |
| | Index | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | |
| | Value | 23 | 24 | 25 | | | | | | | | | | | | | | | | | | | |
| | | | | END | | | | | | | | | | | | | | | | | | | |
| | DEQUEUE (23) | | | | | | | | | | | | | | | | | | | | | | |
| | | (New Overflow Array) | | | | | | | | | | | | | | | | | | | | | |
| | Index | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | | | | | | | | | | |
| | Value | | 24 | 25 | | | | | | | | | | | | | | | | | | | |
| | | | START | END | | | | | | | | | | | | | | | | | | | |

Dequeue happens at the start cell.
Then we update the start index.

(First Array gets removed since it is no longer needed)