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## [hack4prob3] Problem 3

### Statement

Implement a queue.

Refer to Hackathon4 problem sheet for full details.

### Input Format

Each line will contain one of two lines:

E n\n

D\n

### Output Format

For enqueue: No output

For deque: If queue is empty print "Empty", else print the dequeued value

<b>Max. Score</b>	10
<b>Difficulty</b>	0
<b>Time limit</b>	1.0 s
<b>Memory limit</b>	10240 KB
<b>Submission limit</b>	4
<b>Allowed file extensions</b>	.c

### Public test cases

#### Test Case 1

Input

```
E 64932195
E 264831024
D
E 1397218024
E 1275294444
E -985102844
D
E 55185247
D
D
D
E 2034646151
D
E -2061303834
E -256486540
D
```

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### Output

```
64932195
264831024
1397218024
1275294444
-985102844
55185247
2034646151
-2061303834
-256486540
```

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## Test Case 2

### Input

```
E 1520926588
E -1573174560
E -1877414365
D
E 1282975383
D
D
E 63220698
D
D
E 689849125
D
D
E -871236197
D
E -1829994254
```

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### Output

```
1520926588
-1573174560
-1877414365
1282975383
63220698
689849125
Empty
-871236197
-1829994254
-1555342250
```

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## Private test cases

### Test Case 1

Input

```
D
E -741169196
E 889400323
D
E -178912212
D
E -966868042
D
E 932283318
E 2068898094
D
D
E 1318837661
D
D
E 1341563753
```

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Output

```
Empty
-741169196
889400323
-178912212
-966868042
932283318
2068898094
1318837661
1341563753
-1832579328
-1149986181
-1657798014
-1114192473
Empty
142176860
85870532
```

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### Test Case 2

Input

```
D
D
D
E -511360427
E 1284955218
E -214185925
E 420099310
D
D
D
E -163717339
E -1271087624
D
D
D
```

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D

### Output

```
Empty
Empty
Empty
-511360427
1284955218
-214185925
420099310
-163717339
-1271087624
Empty
Empty
Empty
74765568
568602949
-1572375054
1023442559
```

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### Test Case 3

#### Input

```
E -450415981
E 2013517380
E 2055049757
D
D
E 1324138401
D
E -1805653961
D
E -1281873271
D
D
E 2001766996
E 1506101708
E -1289807574
E 1430799665
```

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#### Output

```
-450415981
2013517380
2055049757
1324138401
-1805653961
-1281873271
2001766996
1506101708
-1289807574
1430799665
1227452638
1432691041
2071731606
-38344786
-1488576541
1062554058
```

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Submit Solution for Problem 3

Submissions left: 3

Submissions Over!

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