9328 - Queueing(I)

Description

You need to write a program to simulate a queue of names.  Each name is a string consisting of English letters only.  There are three operations:  
1. “Push [name]”, which means to enque name in the queue.  
2. “Pop”, which means to deque. If the queue is empty, this operation takes no effect.  
3. “Front”, which means to print out the name in the front of queue. If the queue is empty, print "empty" (without quotes).

Input  
There will be at most 107 operations.  Each line contains one of the following operations. “Push [name]” (without quotes), “Pop” (without quotes), “Front”(without quotes). The length of each name is at most 20.  
Case 1 : at most 103 operations  
Case 2 : at most 105 operations  
Case 3 : at most 107 operations  
Case 4 : at most 107 operations

Output  
For each “Front” operation, print out the name in the front of the queue.

Sample Input

Push Bruce  
Push Alan  
Front  
Pop  
Push Tom  
Pop  
Front  
Pop  
Pop  
Pop  
Front   
**EOF**

Sample Output

Bruce  
Tom  
empty   
**EOF**