



insert 3

6	1	7	8	5	2
0	1	2	3	4	5

top = 6

... copy the  
elements of the  
old array into it ...

6	1	7	8	5	2						
0	1	2	3	4	5	6	7	8	9	10	11

insert 3

6	1	7	8	5	2
0	1	2	3	4	5

top = 7

... and finally  
insert 3 into the  
new array.

6	1	7	8	5	2	3					
0	1	2	3	4	5	6	7	8	9	10	11

The old array will  
eventually be  
deleted by Java's  
garbage collector

6	1	7	8	5	2
0	1	2	3	4	5

top = 7

6	1	7	8	5	2	3					
0	1	2	3	4	5	6	7	8	9	10	11