



























Priority Queue

Basic operations Implementation options Binary Heaps













Code for Insertion

```
public PriorityQueue.Position insert( Comparable x )
{
    if( currentSize + 1 == array.length )
        doubleArray( );
        // Percolate up
    int hole = ++currentSize;
    array[ 0 ] = x;
    for( ; x.compareTo( array[ hole / 2 ] ) < 0; hole /= 2 )
        array[ hole ] = array[ hole / 2 ];
    array[ hole ] = x;
    return null;
}</pre>
```





