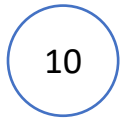
Heapsort example: Insert(10)

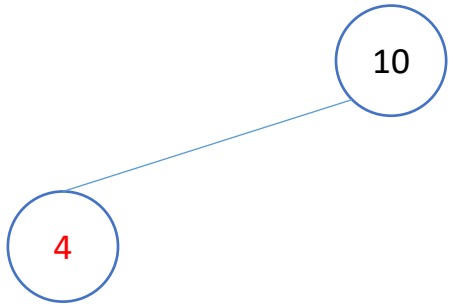
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(4)

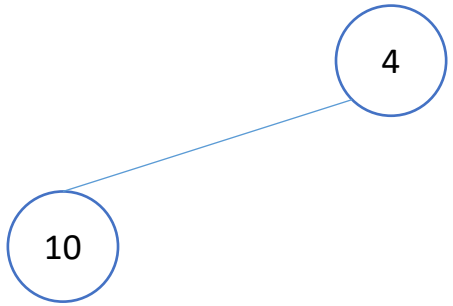
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(4)

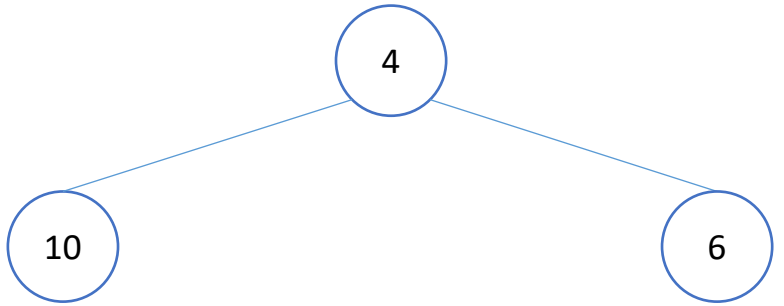
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(6)

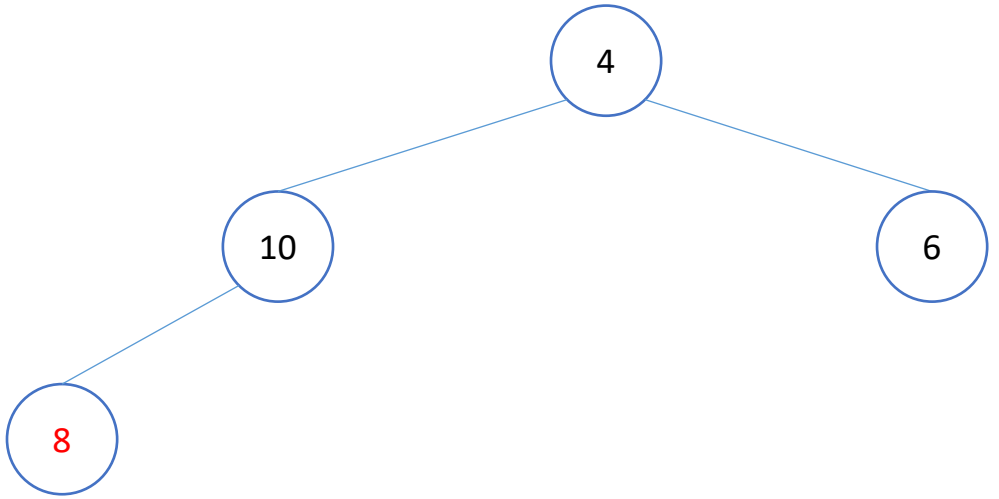
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(8)

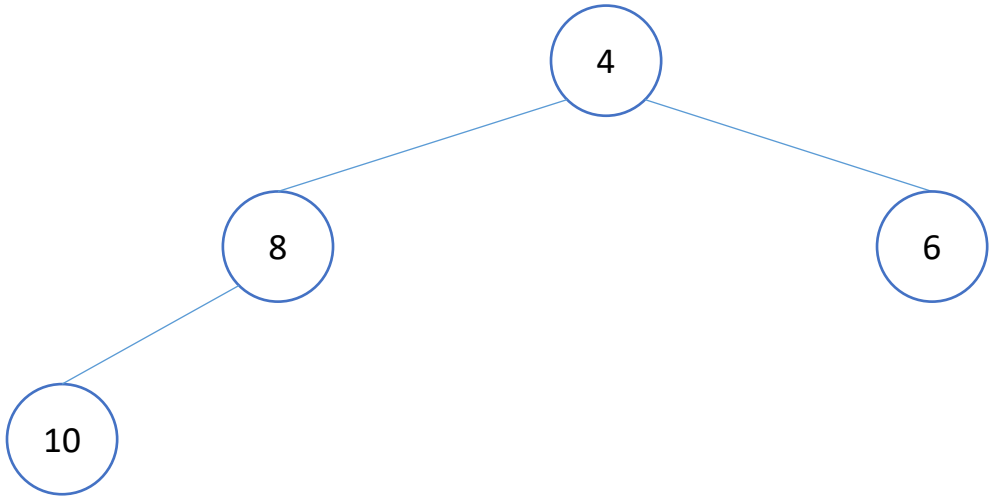
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(8)

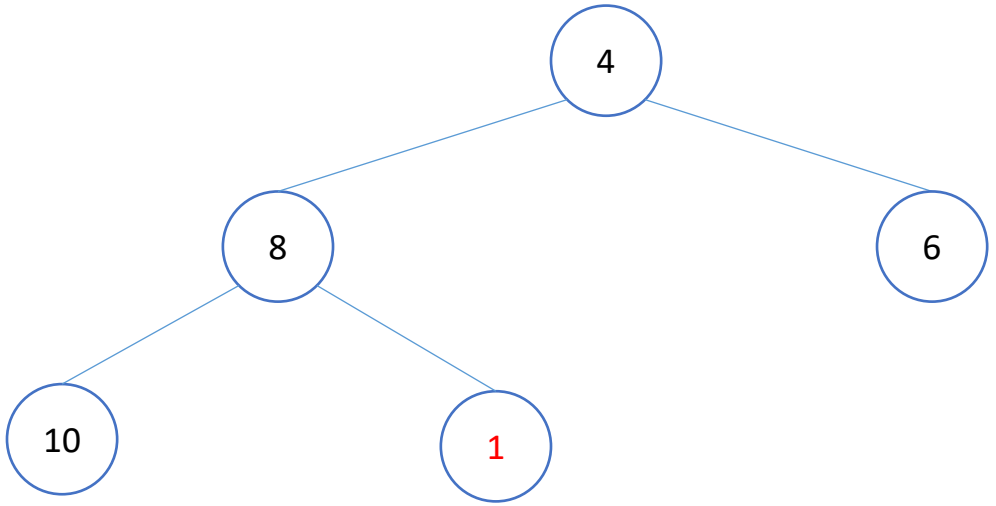
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(1)

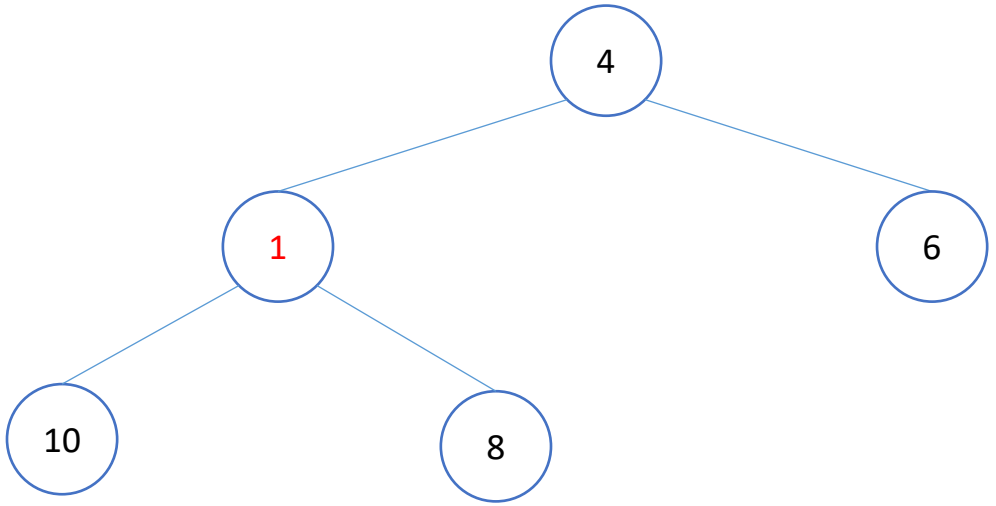
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(1)

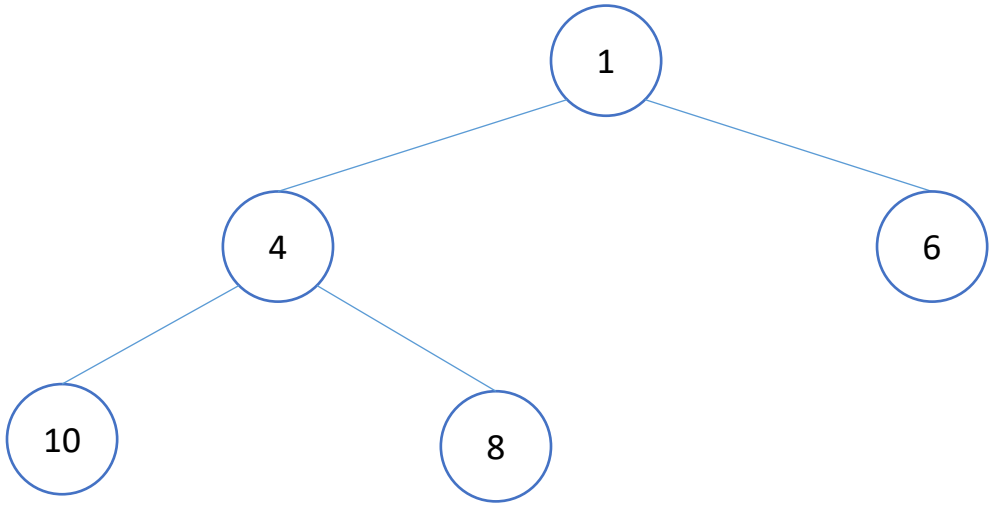
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(1)

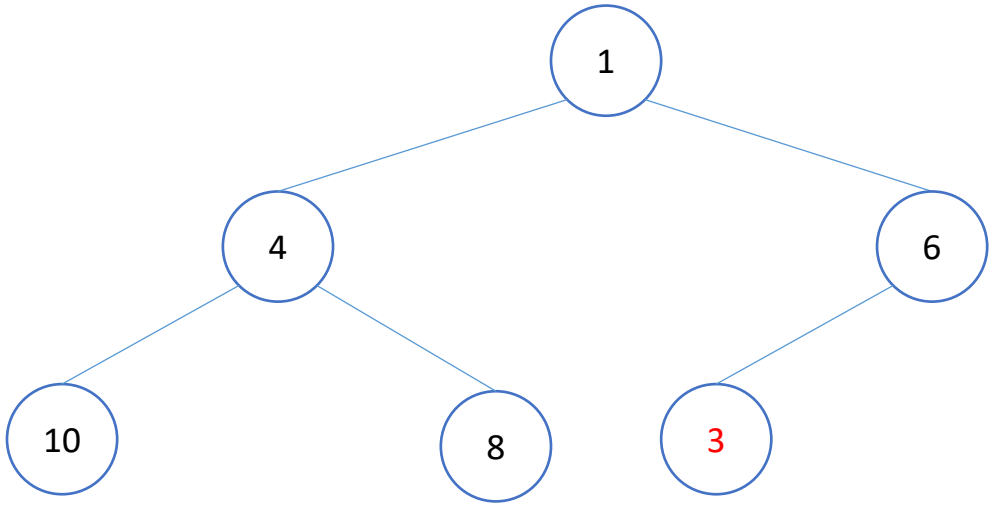
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(3)

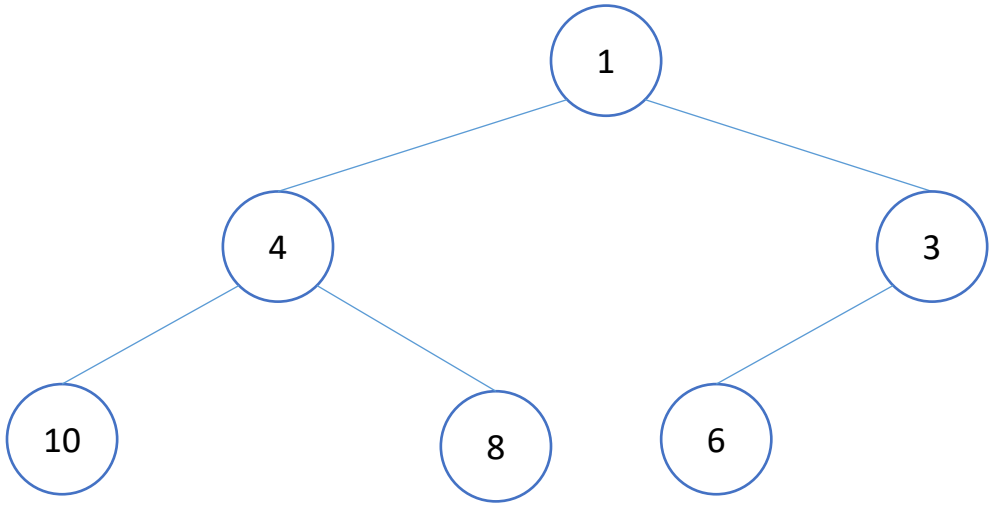
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(3)

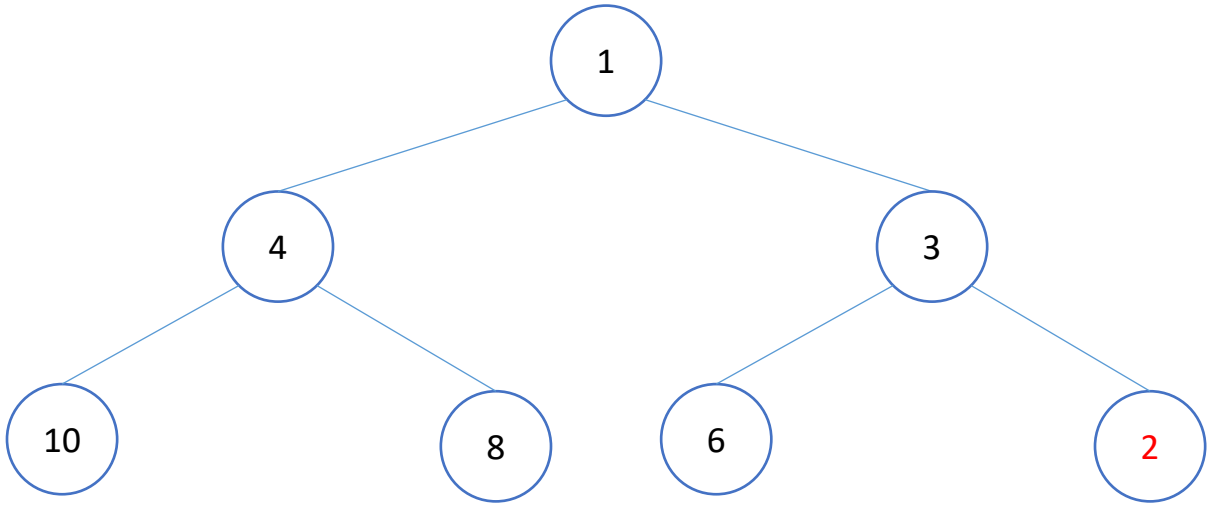
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example

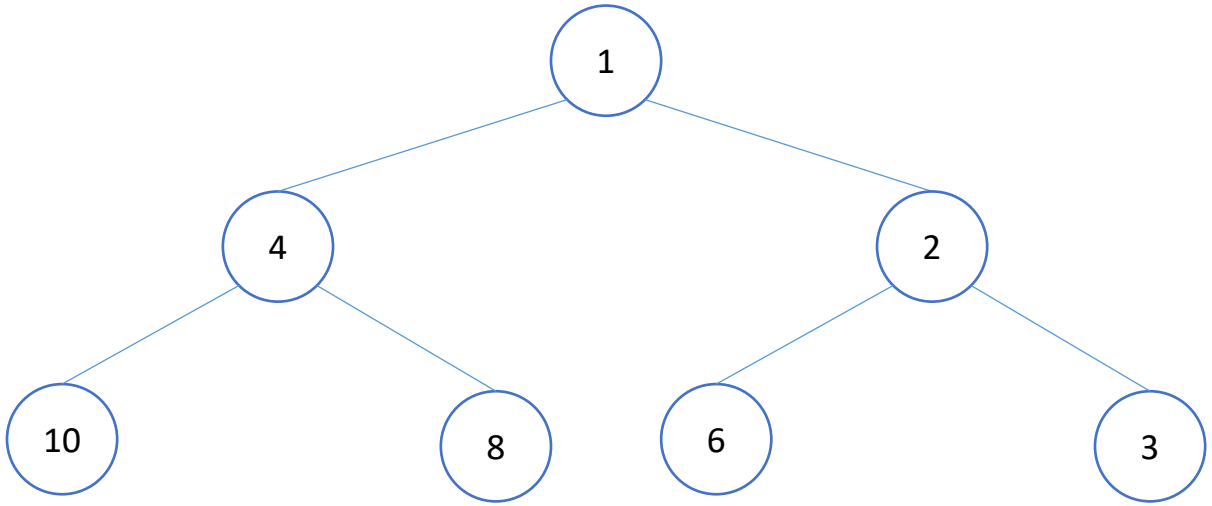
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example

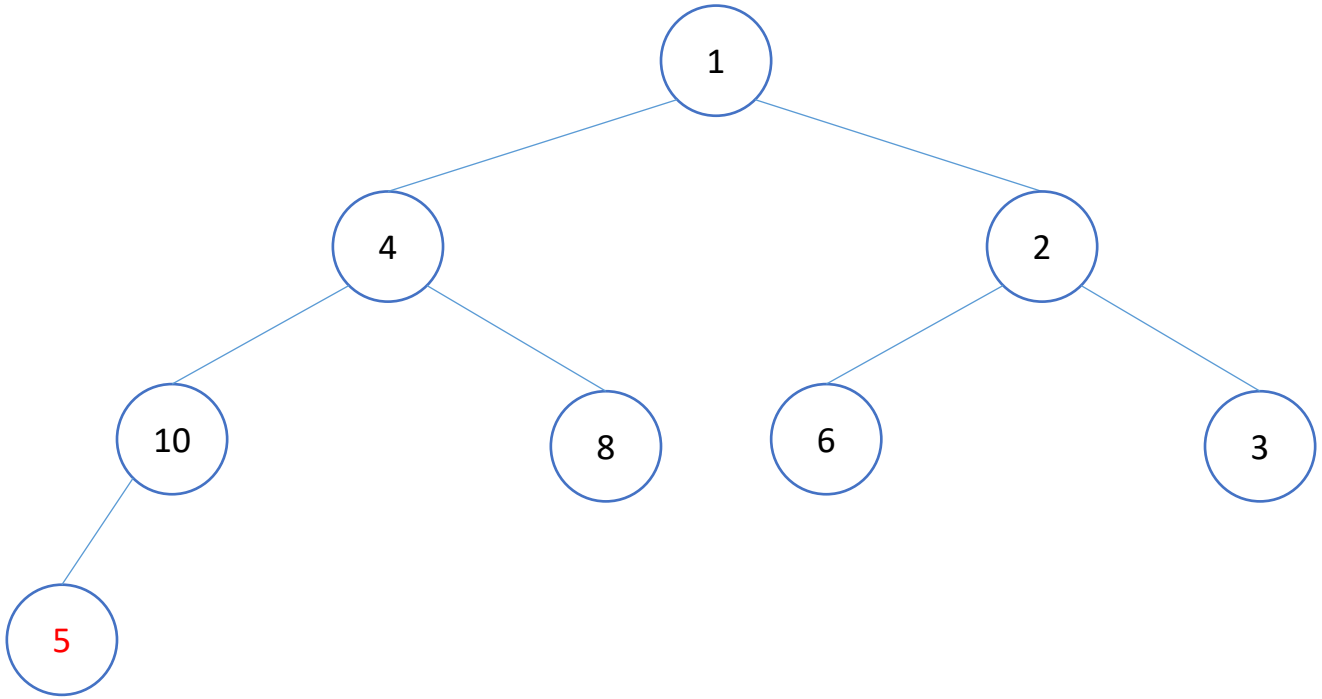
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(5)

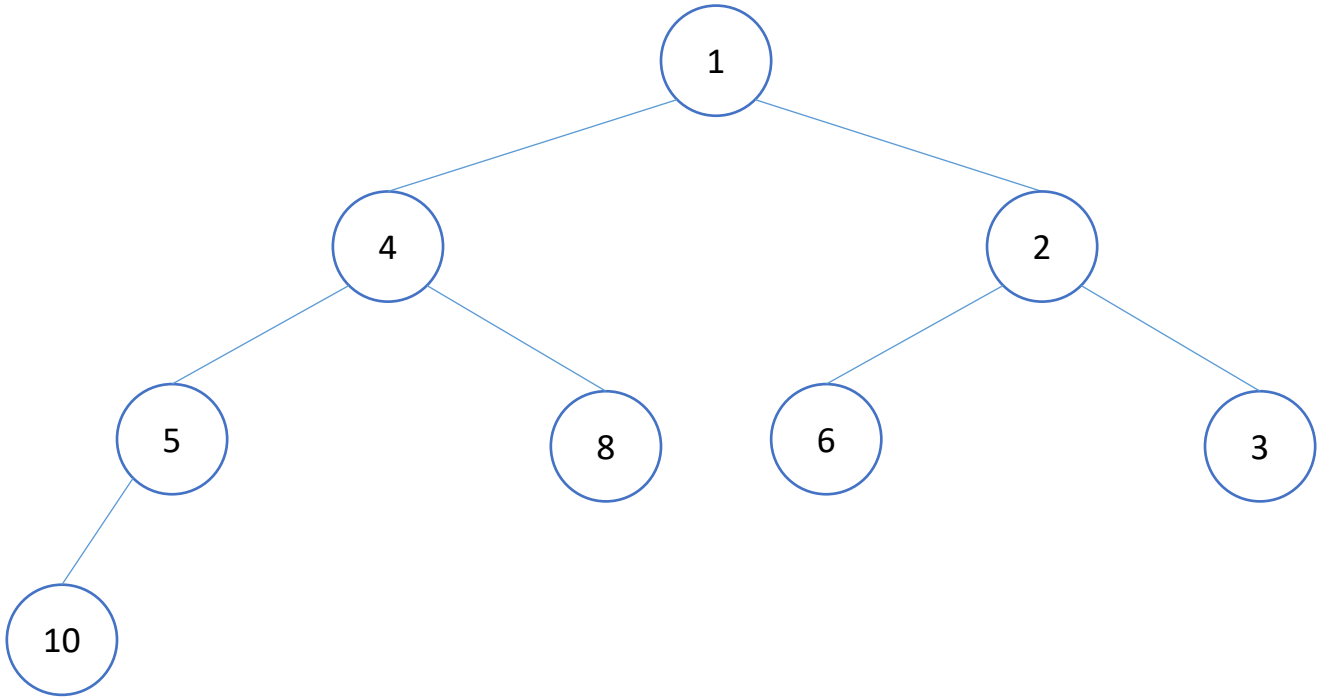
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(5)

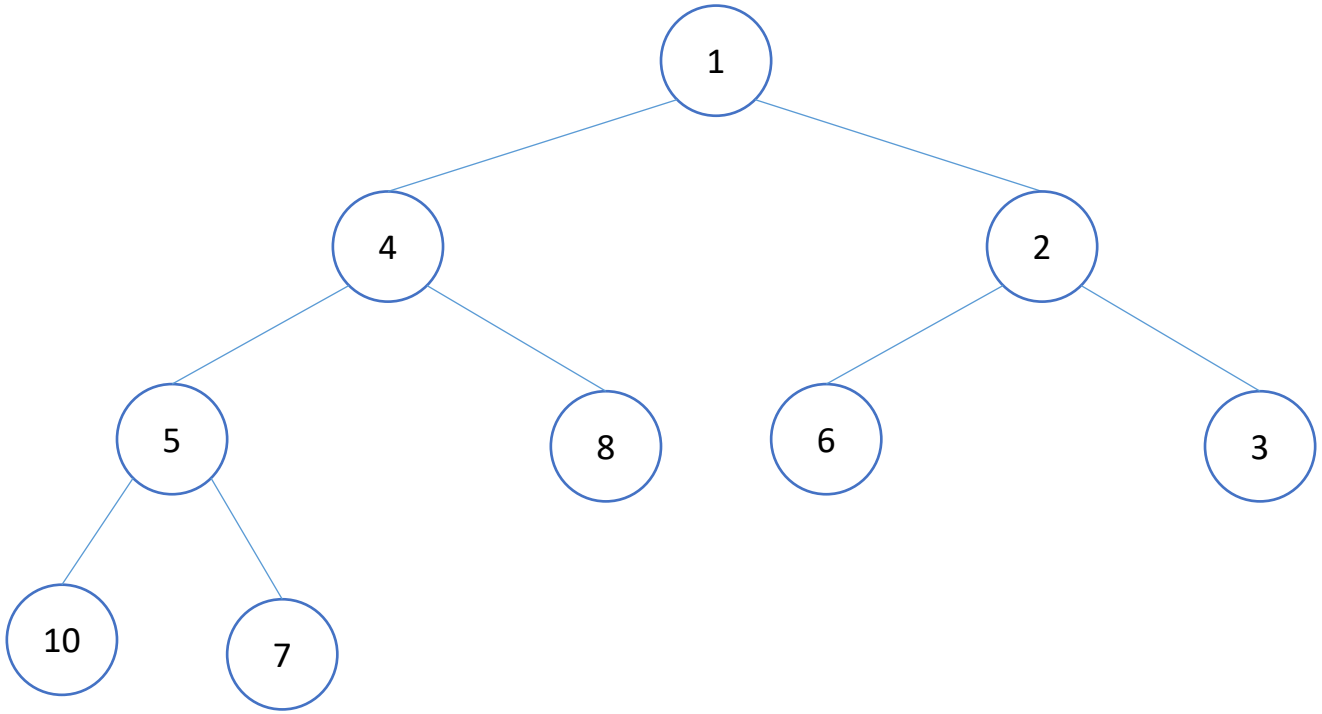
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(7)

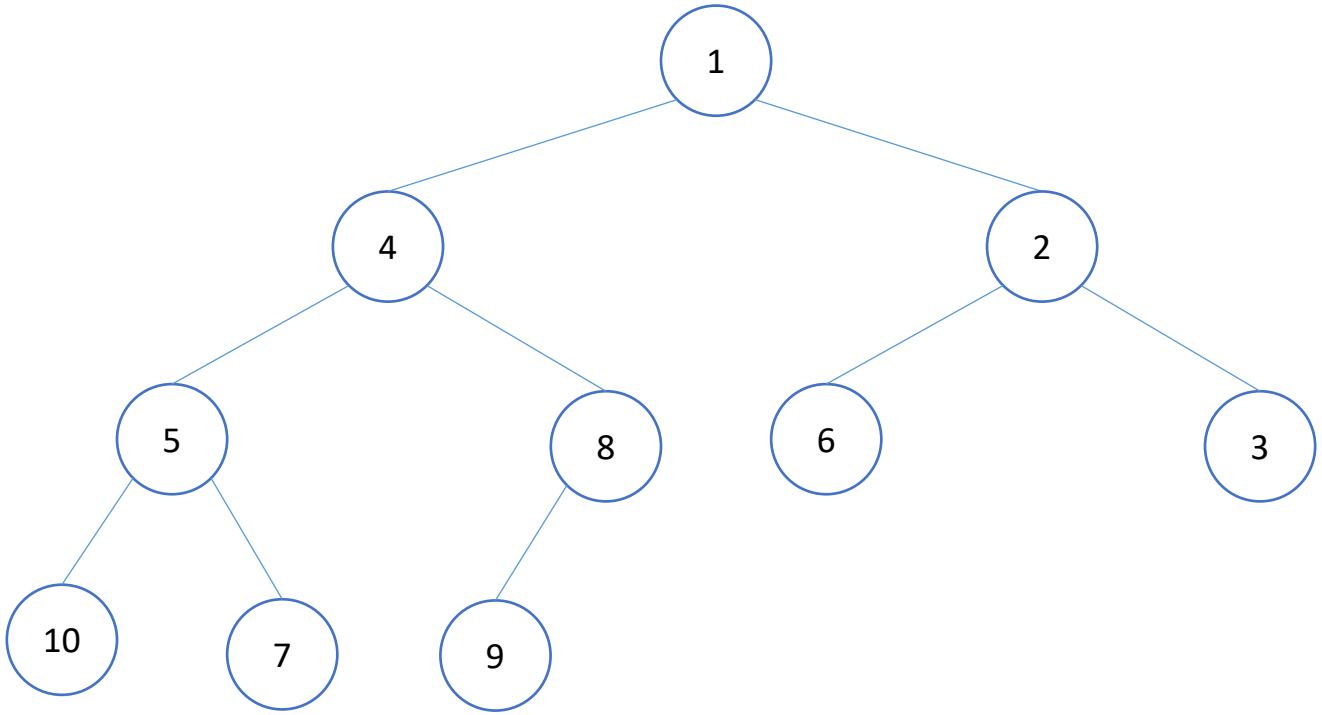
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Insert(9)

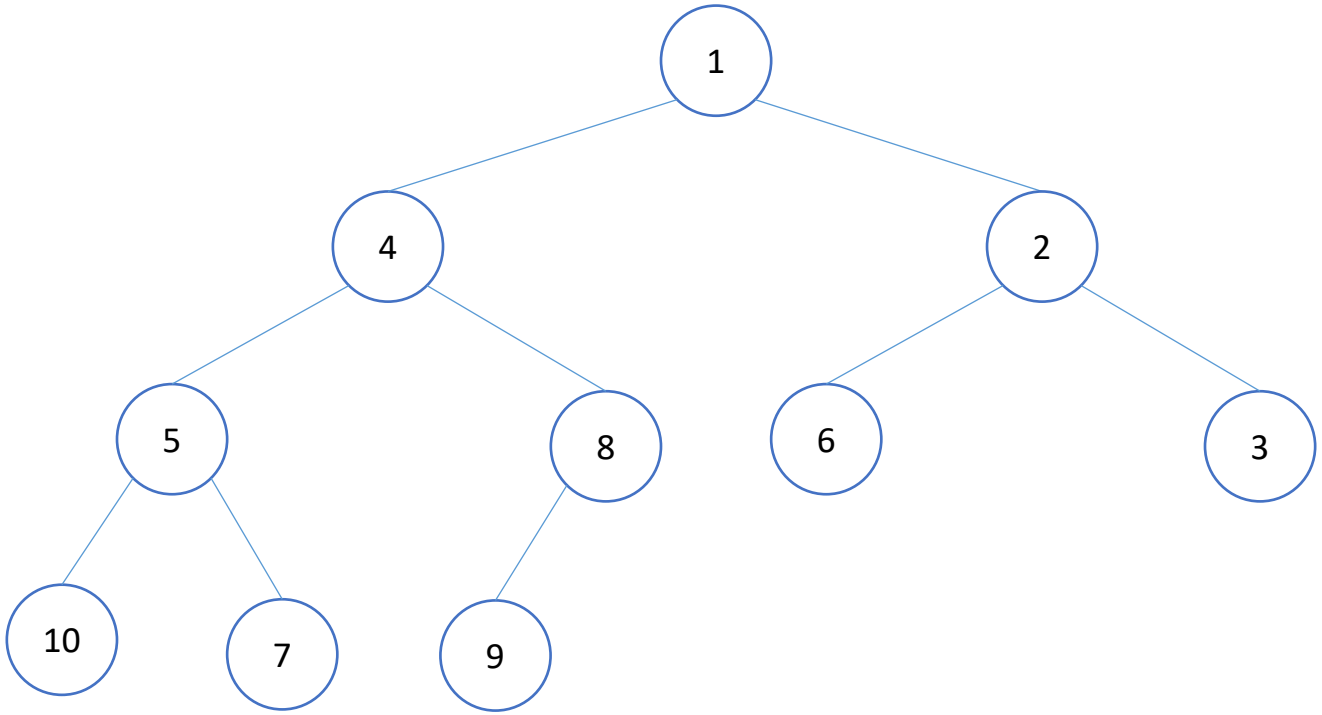
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Now extract the items one at a time

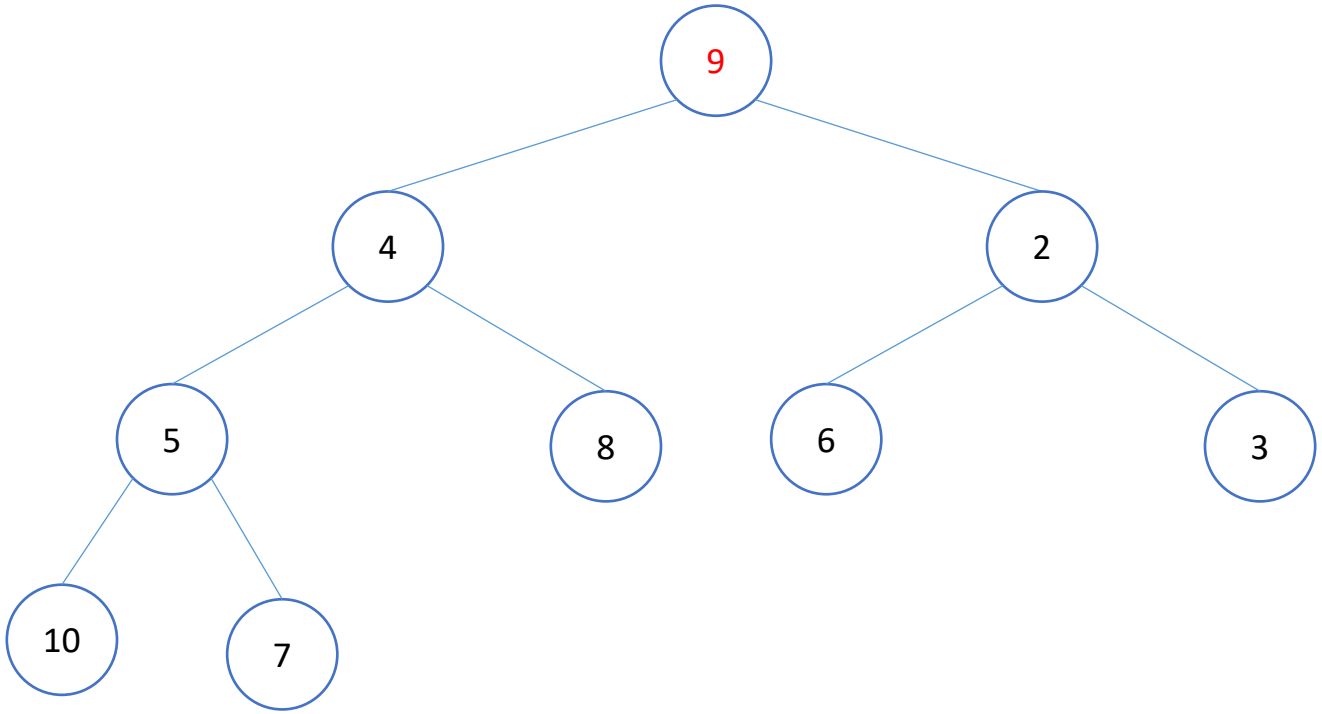
Input	10	4	6	8	1	3	2	5	7	9



Output										

Heapsort example: Extract-Min( )

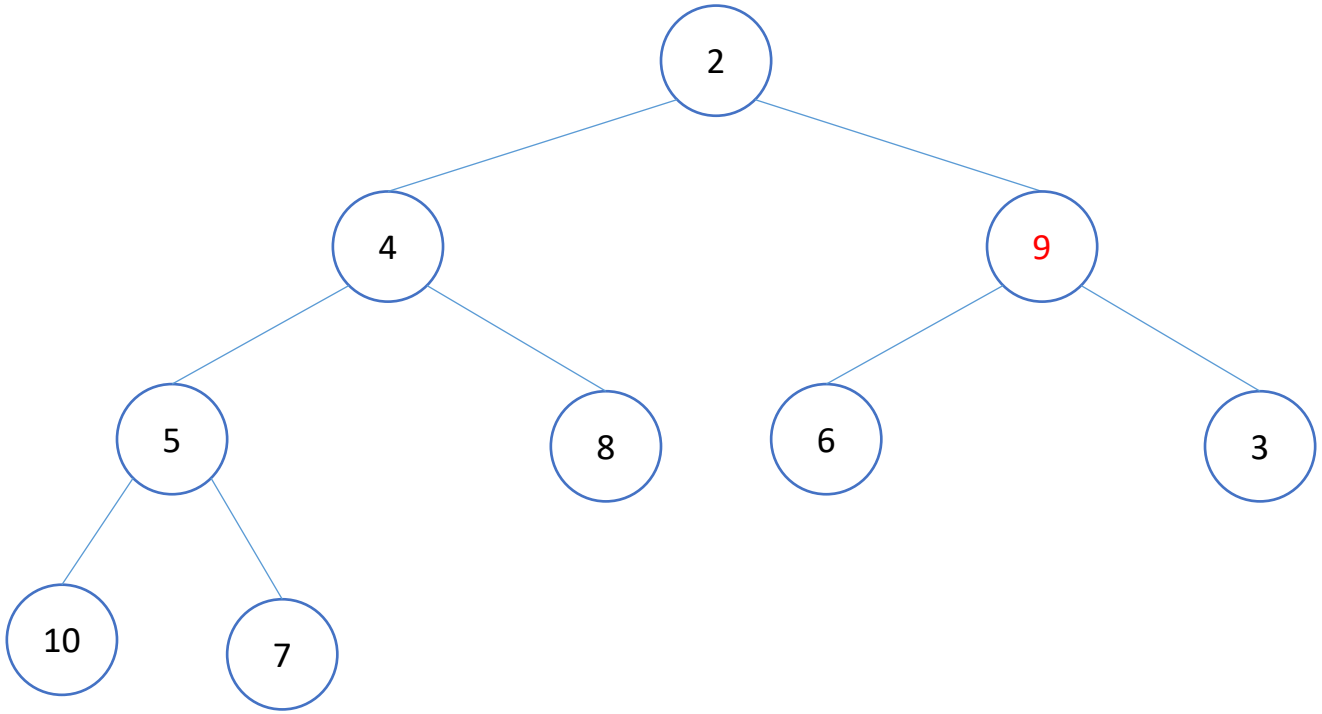
Input	10	4	6	8	1	3	2	5	7	9



Output	1									

Heapsort example

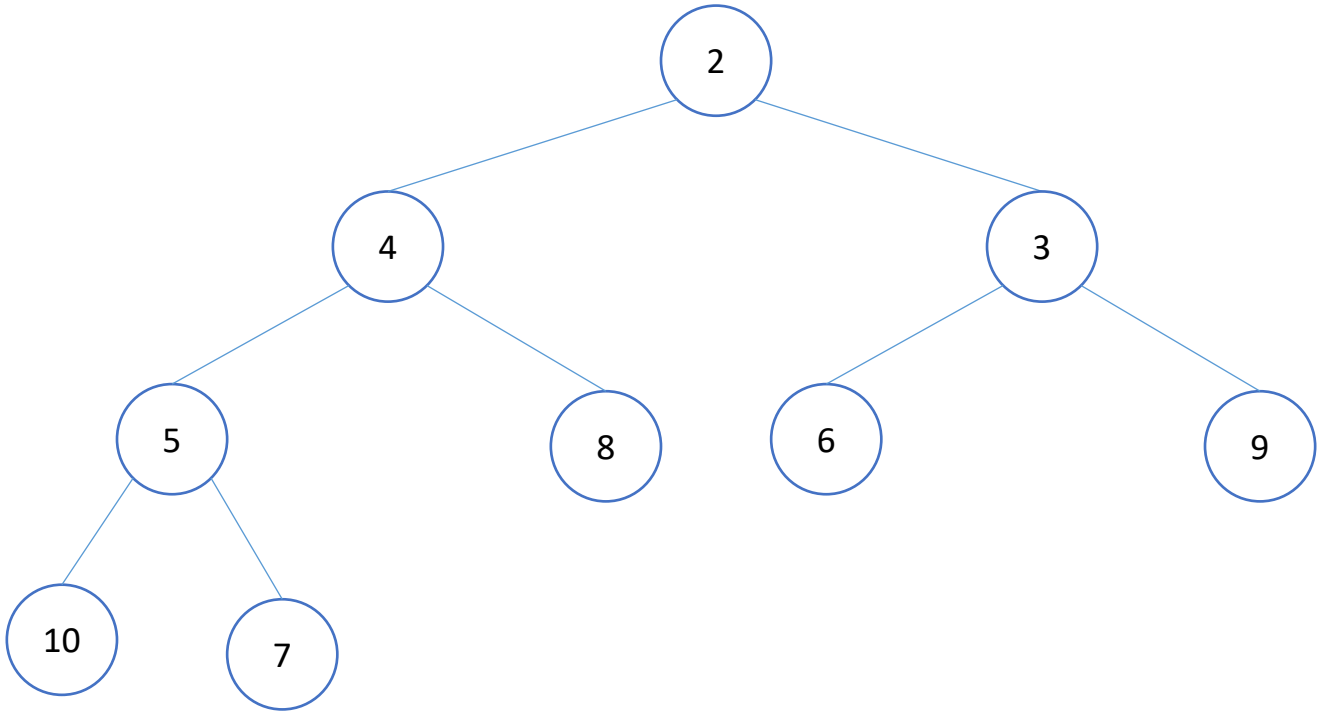
Input	10	4	6	8	1	3	2	5	7	9



Output	1									

Heapsort example

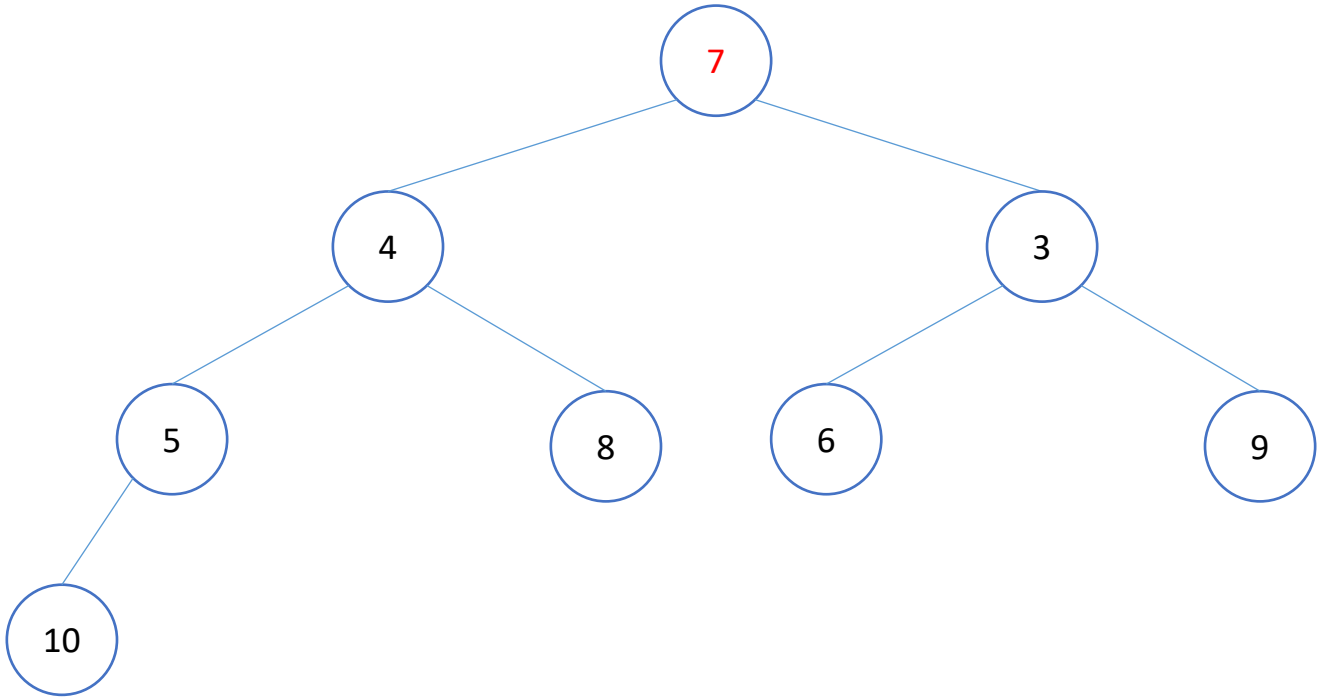
Input	10	4	6	8	1	3	2	5	7	9



Output	1									

Heapsort example: Extract-Min( )

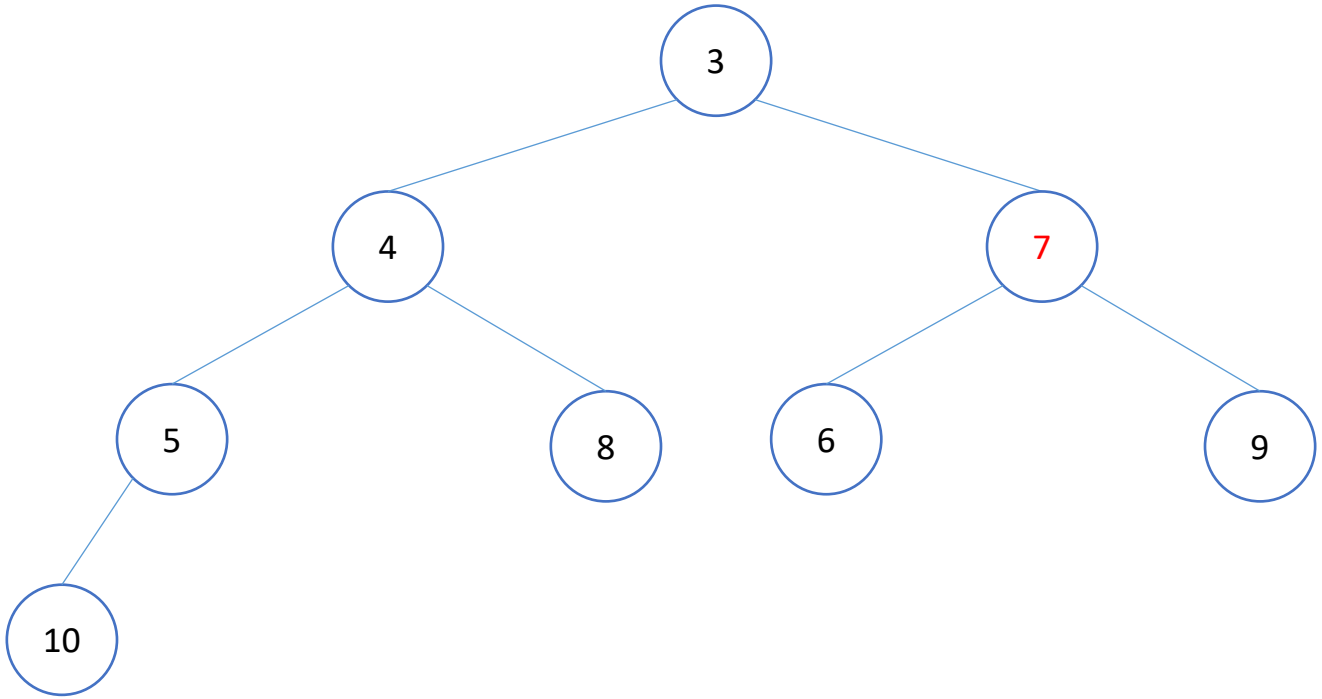
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2								

Heapsort example

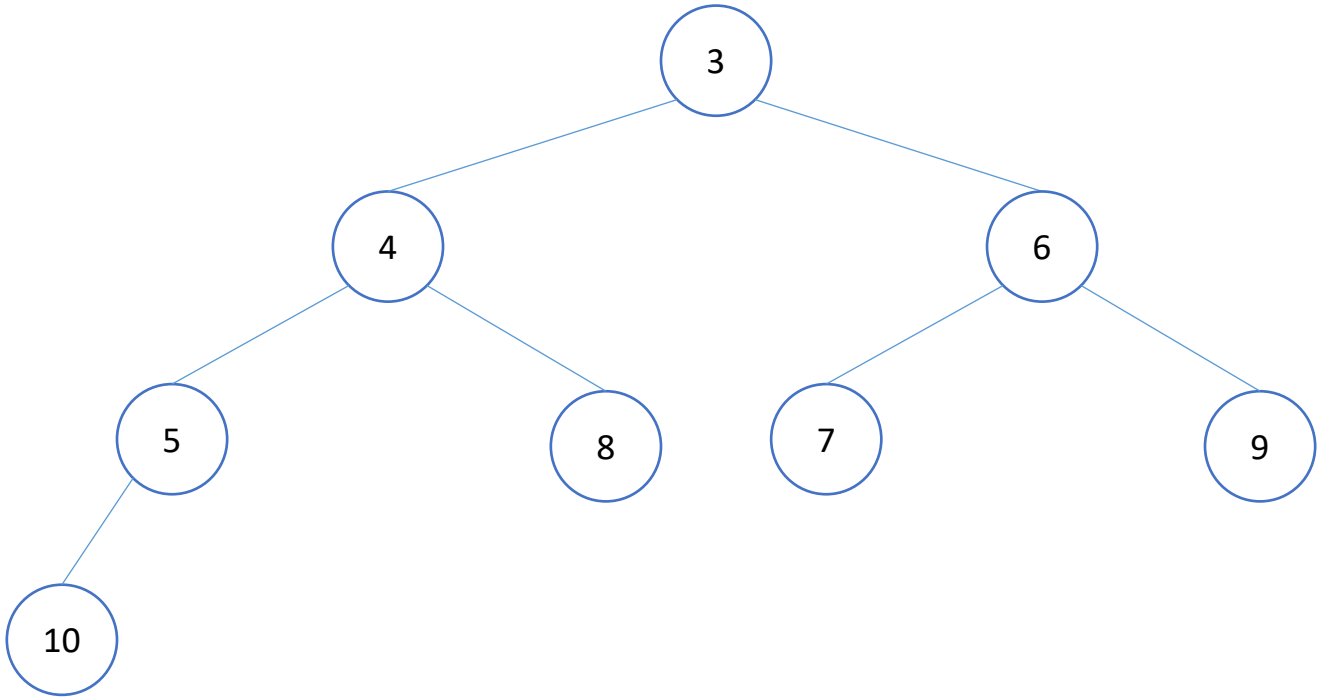
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2								

Heapsort example

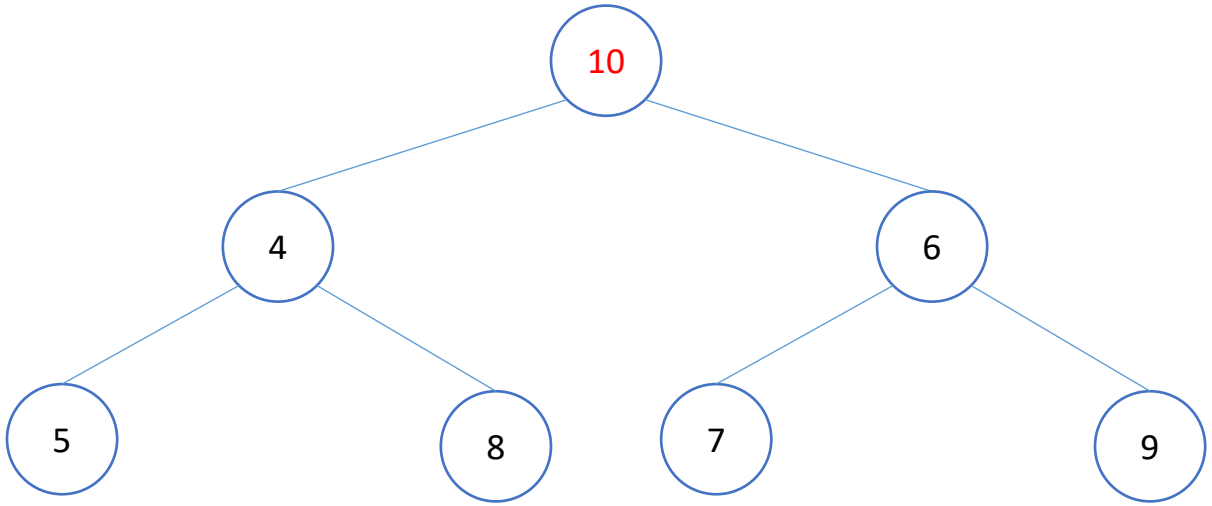
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2								

Heapsort example: Extract-Min( )

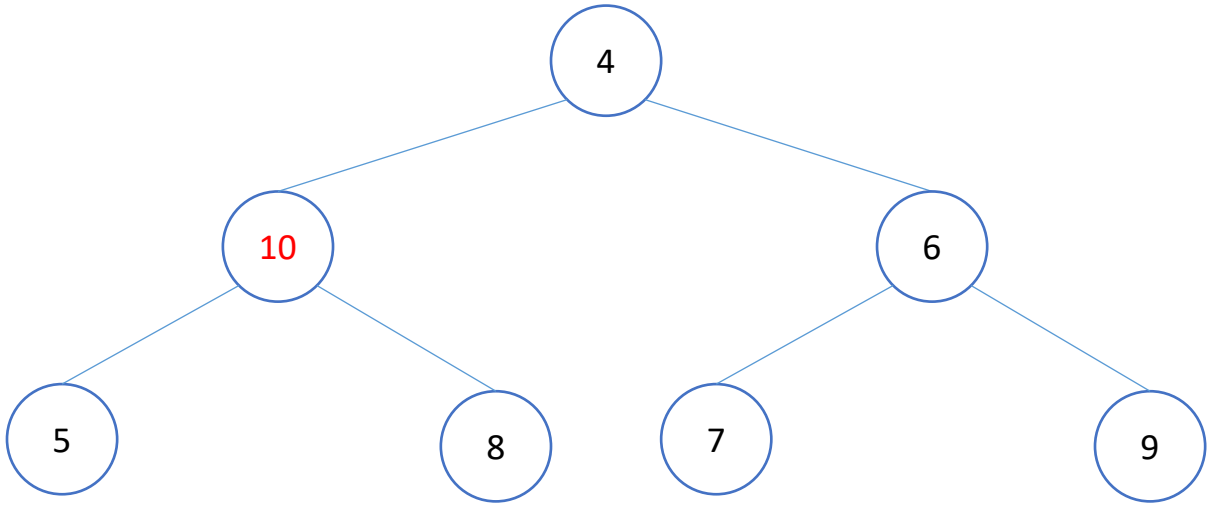
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3							

Heapsort example

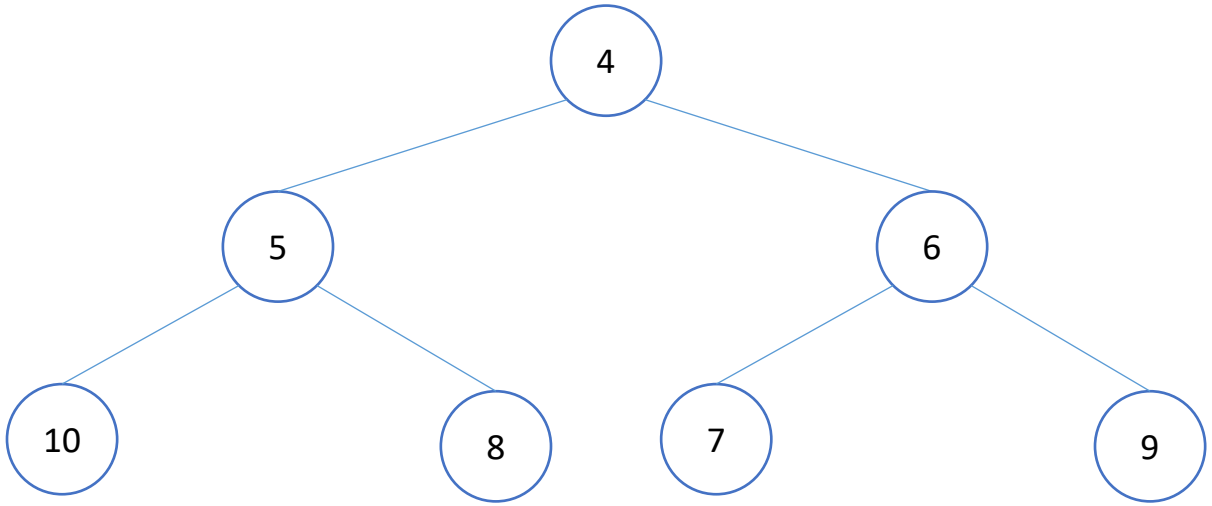
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3							

Heapsort example

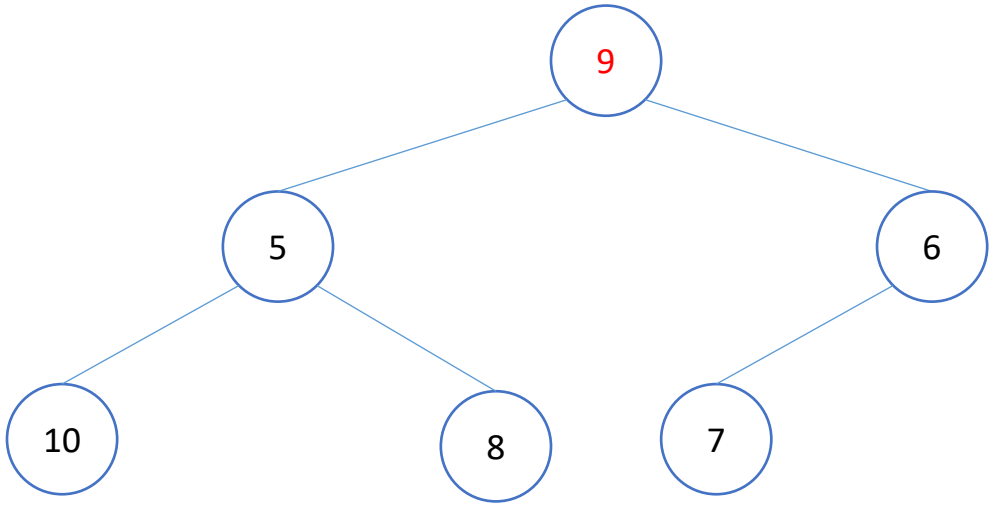
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3							

Heapsort example: Extract-Min( )

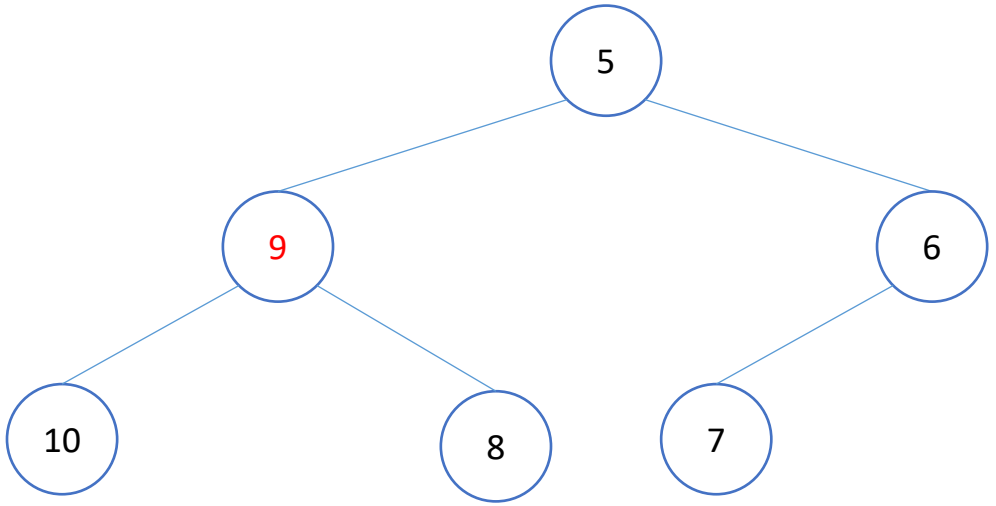
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3	4						

Heapsort example

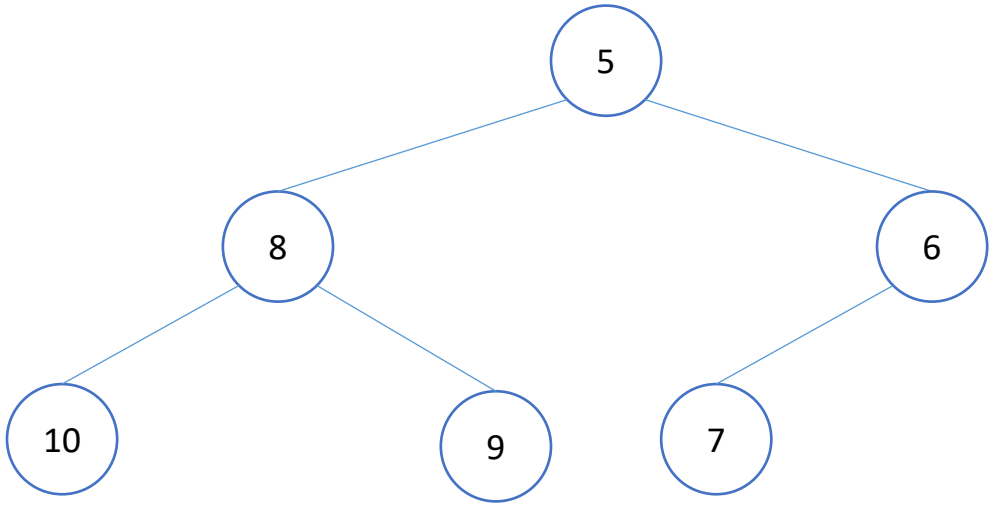
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3	4						

Heapsort example

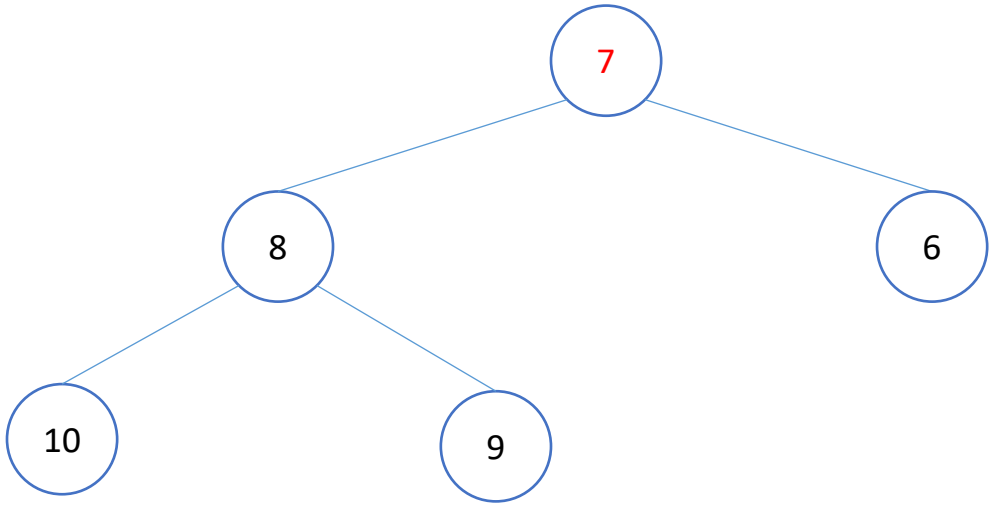
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3	4						

Heapsort example: Extract-Min( )

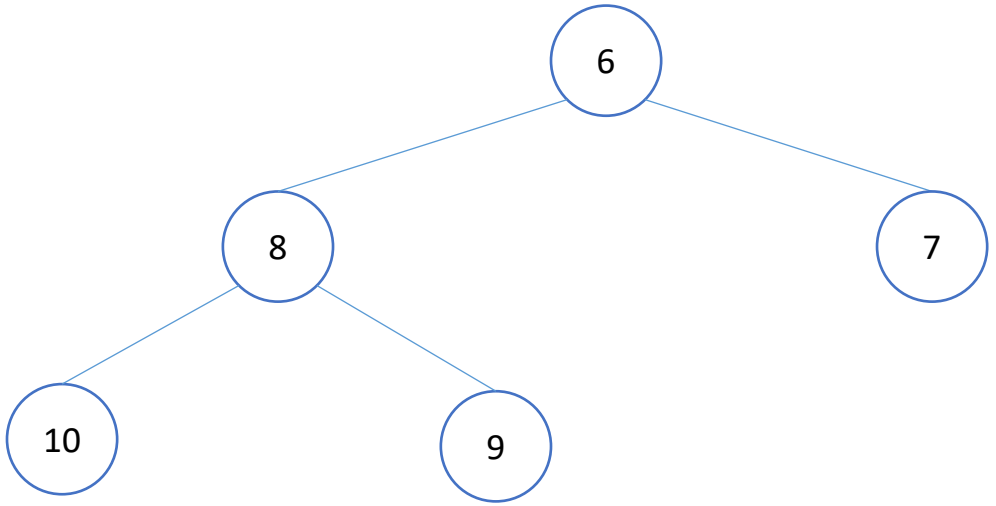
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3	4	5					

Heapsort example

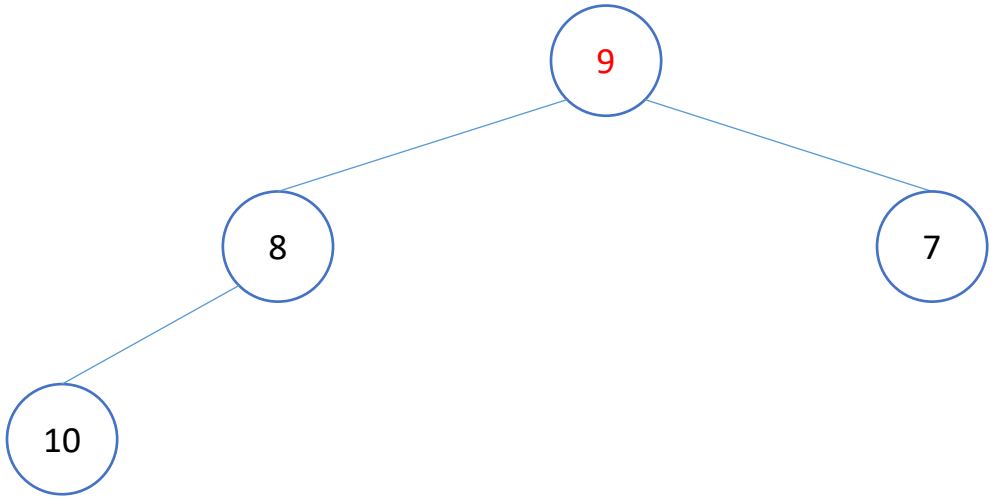
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3	4	5					

Heapsort example: Extract-Min( )

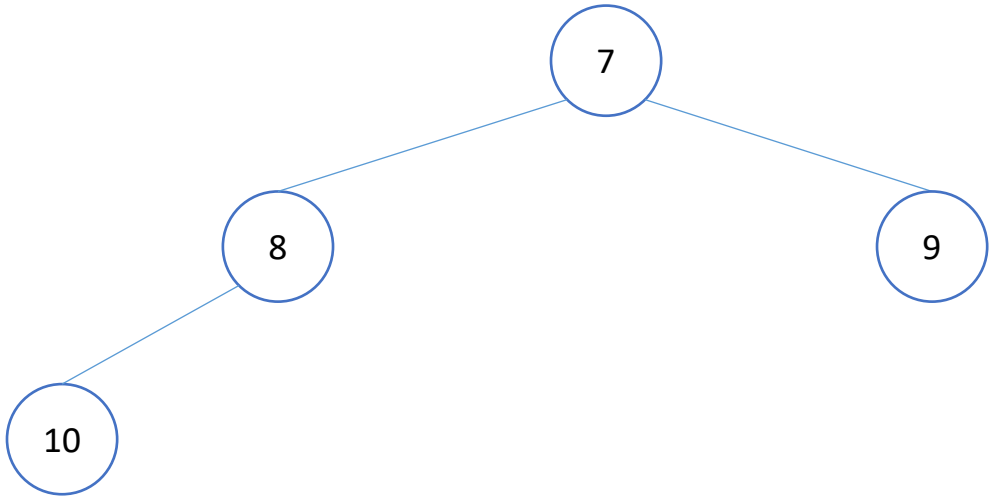
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3	4	5	6				

Heapsort example

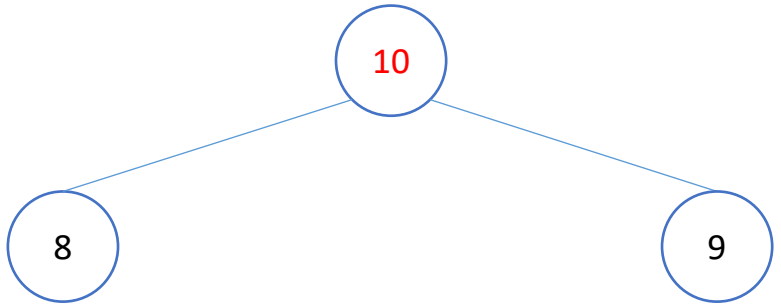
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3	4	5	6				

Heapsort example: Extract-Min( )

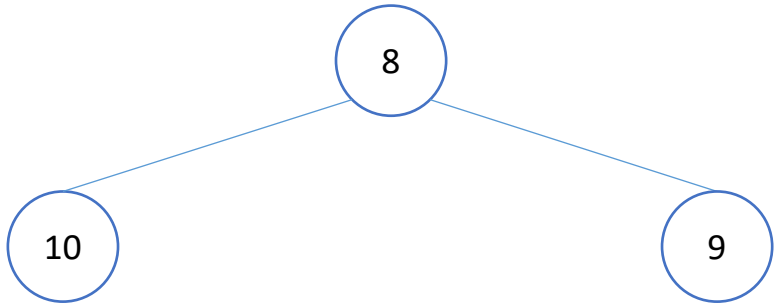
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3	4	5	6	7			

Heapsort example

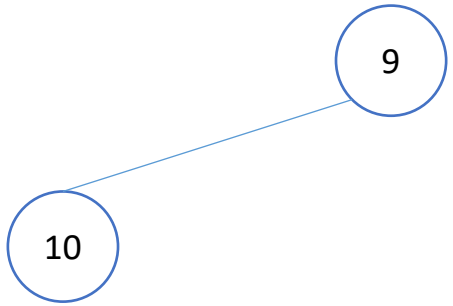
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3	4	5	6	7			

Heapsort example: Extract-Min( )

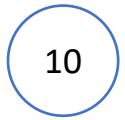
Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3	4	5	6	7	8		

Heapsort example: Extract-Min( )

Input	10	4	6	8	1	3	2	5	7	9



Output	1	2	3	4	5	6	7	8	9	

Heapsort example: Extract-Min( )

Input	10	4	6	8	1	3	2	5	7	9

SORTED

Output	1	2	3	4	5	6	7	8	9	10