heapSort example

Import

	0	1	2	3	4	5	6	7	8
	5	4	1	11	10	3	2	16	12

After Heapify

	0	1	2	3	4	5	6	7	8
	16	12	3	11	10	1	2	5	4

After 1st swap

	0	1	2	3	4	5	6	7	8
	4	12	3	11	10	1	2	5	16

	0	1	2	3	4	5	6	7	8
After trickleDown	12	11	3	5	10	1	2	4	**16**

	0	1	2	3	4	5	6	7	8
After 2nd swap	4	11	3	5	10	1	2	**12**	**16**

	0	1	2	3	4	5	6	7	8
After trickleDown	11	10	3	5	4	1	2	**12**	**16**

	0	1	2	3	4	5	6	7	8
After 3rd swap	2	10	3	5	4	1	**11**	**12**	**16**

	0	1	2	3	4	5	6	7	8
After trickleDown	10	5	3	2	4	1	**11**	**12**	**16**

	0	1	2	3	4	5	6	7	8
After 4th swap	1	5	3	2	4	**10**	**11**	**12**	**16**

	0	1	2	3	4	5	6	7	8
After trickleDown	5	4	3	2	1	**10**	**11**	**12**	**16**

	0	1	2	3	4	5	6	7	8
After 5th swap	1	4	3	2	**5**	**10**	**11**	**12**	**16**

	0	1	2	3	4	5	6	7	8
After trickleDown	4	2	3	1	**5**	**10**	**11**	**12**	**16**

After 6th swap	0	1	2	3	4	5	6	7	8
	1	2	3	**4**	**5**	**10**	**11**	**12**	**16**

After trickleDown	0	1	2	3	4	5	6	7	8
	3	2	1	**4**	**5**	**10**	**11**	**12**	**16**

After 7th swap	0	1	2	3	4	5	6	7	8
	1	2	**3**	**4**	**5**	**10**	**11**	**12**	**16**

After trickleDown	0	1	2	3	4	5	6	7	8
	2	1	**3**	**4**	**5**	**10**	**11**	**12**	**16**

After 8th swap	0	1	2	3	4	5	6	7	8
	1	**2**	**3**	**4**	**5**	**10**	**11**	**12**	**16**