

1	2	5	3	9	8	6	0	7	4
---	---	---	---	---	---	---	---	---	---

1	2	5	7	9	8	6	0	3	4
---	---	---	---	---	---	---	---	---	---

1	2	8	7	9	5	6	0	3	4
---	---	---	---	---	---	---	---	---	---

1	9	8	7	2	5	6	0	3	4
---	---	---	---	---	---	---	---	---	---

1	9	8	7	4	5	6	0	3	2
---	---	---	---	---	---	---	---	---	---

9	1	8	7	4	5	6	0	3	2
---	---	---	---	---	---	---	---	---	---

9	7	8	1	4	5	6	0	3	2
---	---	---	---	---	---	---	---	---	---

9	7	8	3	4	5	6	0	1	2
---	---	---	---	---	---	---	---	---	---

initial heapification complete

2	7	8	3	4	5	6	0	1	9
---	---	---	---	---	---	---	---	---	---

8	7	2	3	4	5	6	0	1	9
---	---	---	---	---	---	---	---	---	---

8	7	6	3	4	5	2	0	1	9
---	---	---	---	---	---	---	---	---	---

heap restored

1	7	6	3	4	5	2	0	8	9
---	---	---	---	---	---	---	---	---	---

7	1	6	3	4	5	2	0	8	9
---	---	---	---	---	---	---	---	---	---

7	4	6	3	1	5	2	0	8	9
---	---	---	---	---	---	---	---	---	---

heap restored

0	4	6	3	1	5	2	7	8	9
---	---	---	---	---	---	---	---	---	---

6	4	0	3	1	5	2	7	8	9
---	---	---	---	---	---	---	---	---	---

6	4	5	3	1	0	2	7	8	9
---	---	---	---	---	---	---	---	---	---

heap restored

2	4	5	3	1	0	6	7	8	9
---	---	---	---	---	---	---	---	---	---

5	4	2	3	1	0	6	7	8	9
---	---	---	---	---	---	---	---	---	---

heap restored

0	4	2	3	1	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

4	0	2	3	1	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

4	3	2	0	1	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

heap restored

1	3	2	0	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

3	1	2	0	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

heap restored

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

2	1	0	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

heap restored

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

1	0	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

heap restored

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

sorted

Figure 1: Answer to Examination Question