HS   −5 13 −32 7 −3 17 23 12 −35 19

Build Heap:

```
                    −5
            13              −32
        7       (−3)     17      23
     12   −35   19
```

```
                    −5
            13              −32
        (7)       19      17      23
     12   (−35)  −3
```

```
                    −5
            13              (−32)
        12        19   17      23
      7     −35   −3
```

```
                    −5
            (13)              23
        12        19   17    32
      7    −35  −3
```

```
                    (−5)
            19              23
        12        13   17    −32
      7    −35  −3
```

```
                    23
            19              (−5)
        12        13   17    −32
      7    −35  −3
```

```
                    23
            19              17
        12        13   −5    −32
      7    −35  −3
```
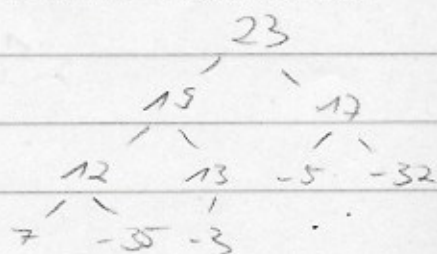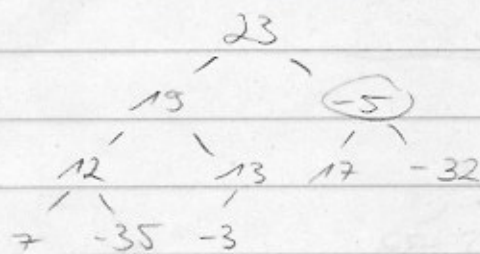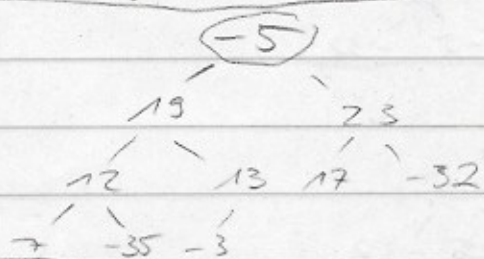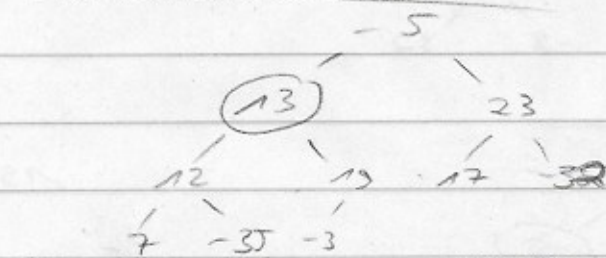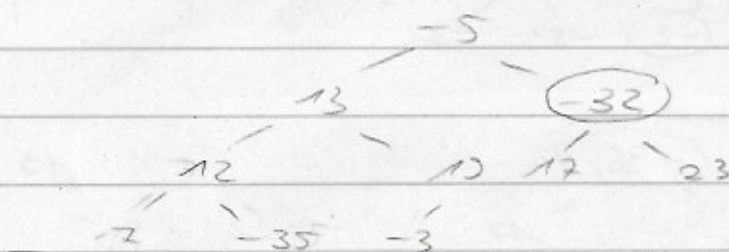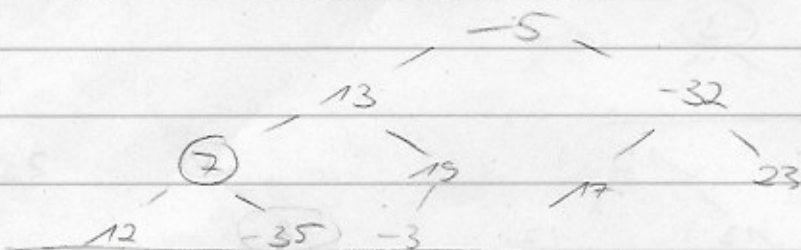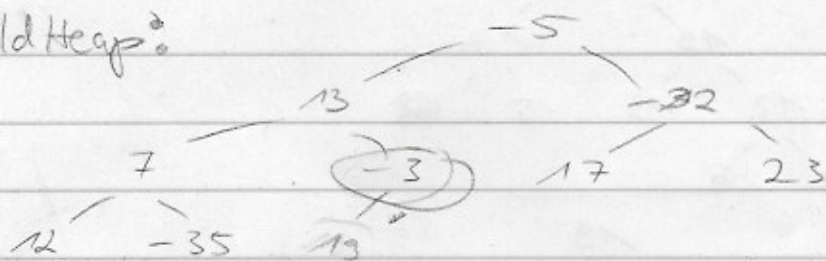
MaxValue an letzte Stelle und heruntersieben :
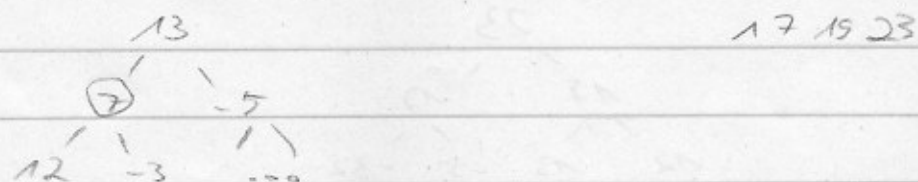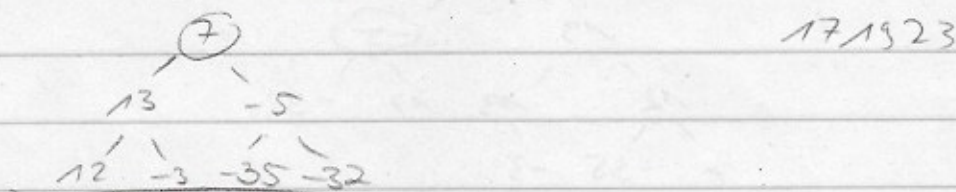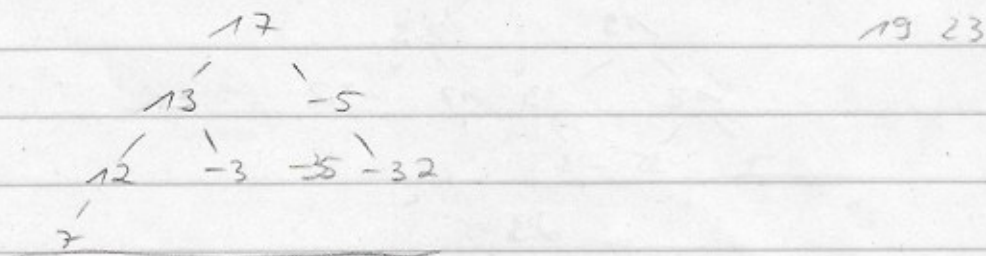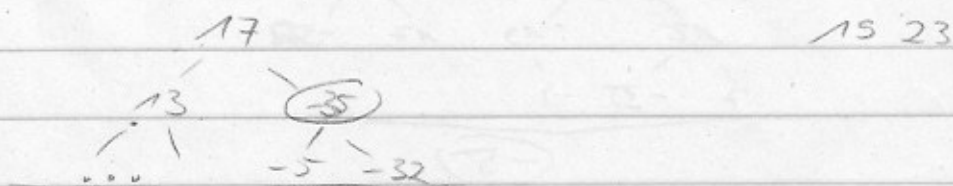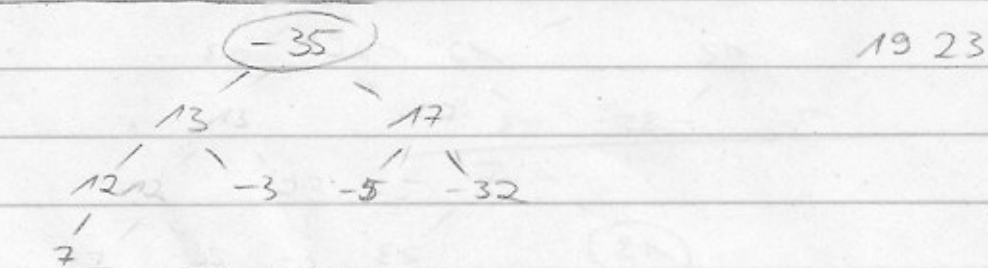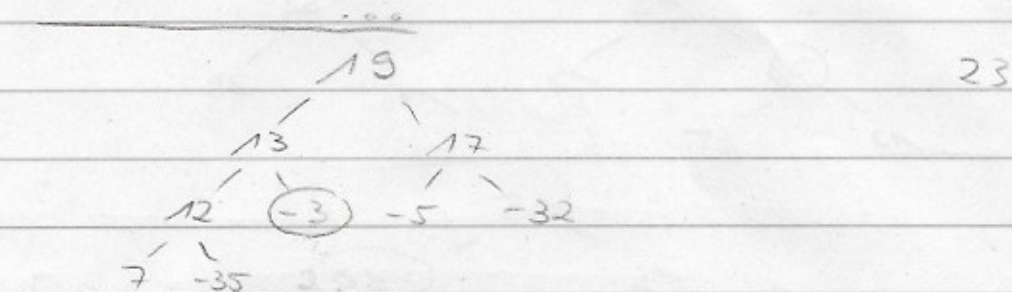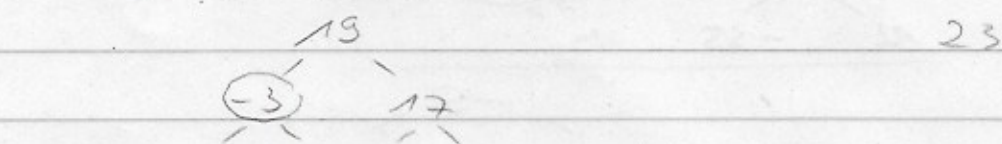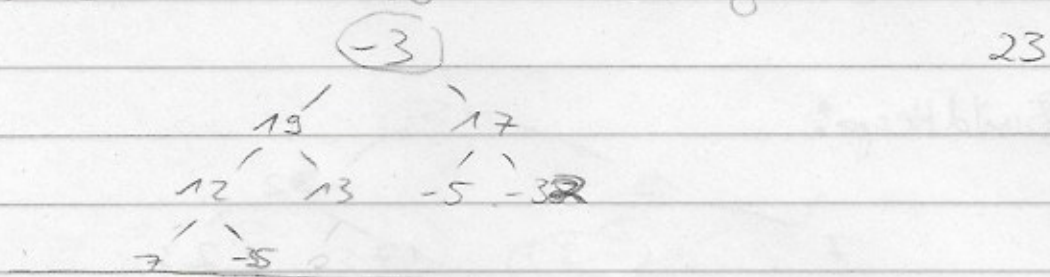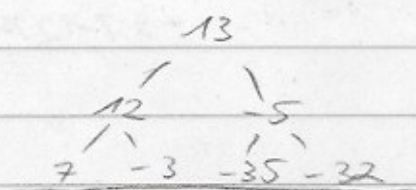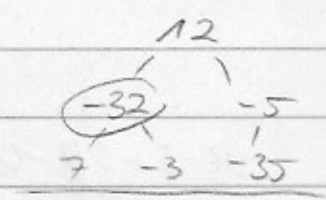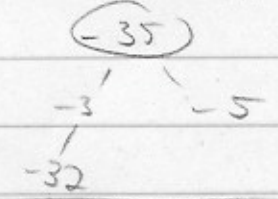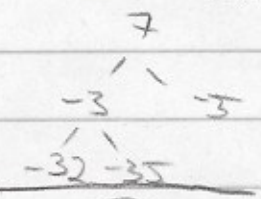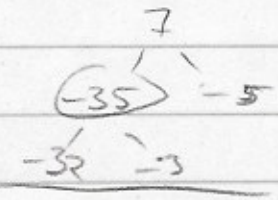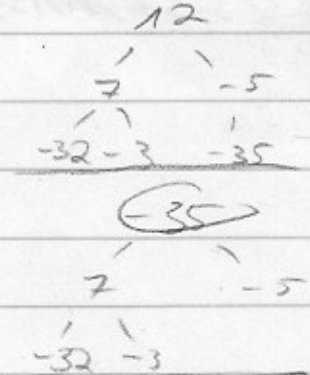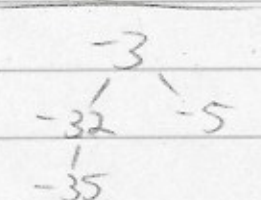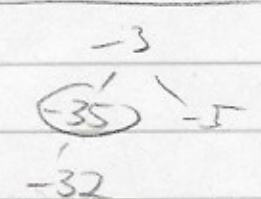
$$
\begin{array}{c}
(-3) \\
19 \quad\quad 17 \\
12 \quad 13 \quad -5 \quad -32 \\
7 \quad -5
\end{array}
\qquad 23
$$

$$
\begin{array}{c}
19 \\
(-3) \quad 17 \\
\cdots
\end{array}
\qquad 23
$$

$$
\begin{array}{c}
19 \\
13 \quad 17 \\
12 \quad (-3) \quad -5 \quad -32 \\
7 \quad -35
\end{array}
\qquad 23
$$

$$
\begin{array}{c}
(-35) \\
13 \quad 17 \\
12 \quad -3 \quad -5 \quad -32 \\
7
\end{array}
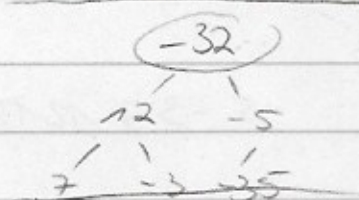\qquad 19 \; 23
$$

$$
\begin{array}{c}
17 \\
13 \quad (35) \\
\cdots \quad -5 \quad -32
\end{array}
\qquad 19 \; 23
$$

$$
\begin{array}{c}
17 \\
13 \quad -5 \\
12 \quad -3 \quad -5 \quad -32 \\
7
\end{array}
\qquad 19 \; 23
$$

$$
\begin{array}{c}
(7) \\
13 \quad -5 \\
12 \quad -3 \quad -35 \quad -32
\end{array}
\qquad 17 \; 19 \; 23
$$

$$
\begin{array}{c}
13 \\
(7) \quad -5 \\
12 \quad -3 \quad \cdots
\end{array}
\qquad 17 \; 19 \; 23
$$

13
  12   5
 7 -3 -35 -32
_____

(-32)

  12   -5
 7 -3 -35
_____

     12
  (-32)   -5
 7   -3   -35
_____

     12
   7   -5
 -32 -3   -35
_____

     (-35)
   7   -5
 -32 -3
_____

      7
  (-35)   -5
 -32   -3
_____

      7
   -3   -5
 -32 -35
_____

     (-35)
   -3   -5
 -32
_____

     -3
  (-35)   -5
 -32
_____

     -3
  -32   -5
 -35

-35

$-32 \quad -5$

-5

$-32 \quad -35$

(35)

-32

-32

-35

-35

$-3 \; 7 \; 12 \; 13 \; 17 \; 19 \; 23$

$-5 \; -3 \; 7 \; 12 \; 13 \; 17 \; 19 \; 23$

$-32 \; -5 \; -3 \; 7 \; 12 \; 13 \; 17 \; 19 \; 23$

$-35 \; -32 \; 5 \; -3 \; 7 \; 12 \; 13 \; 17 \; 15 \; 23$