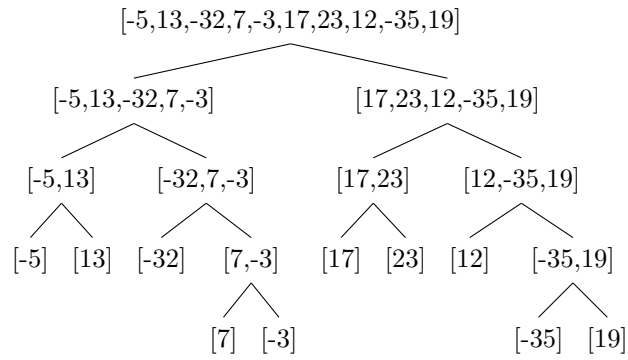
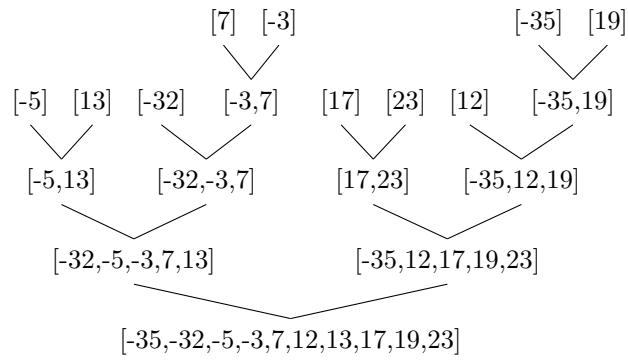


# 1 MergeSort



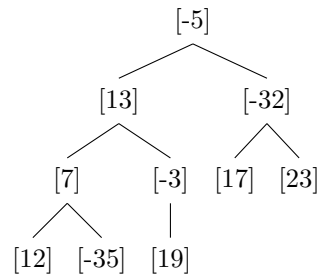
**Diagram 1:** Teilen



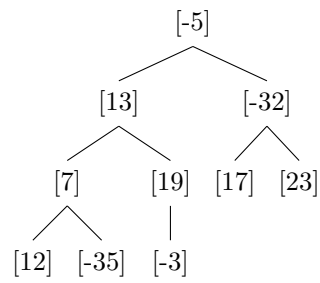
**Diagram 2:** Mischen

## 2 HeapSort

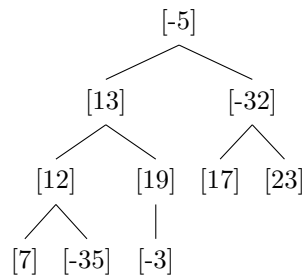
$a[] = \{-5, 13, -32, 7, -3, 17, 23, 12, -35, 19\}$



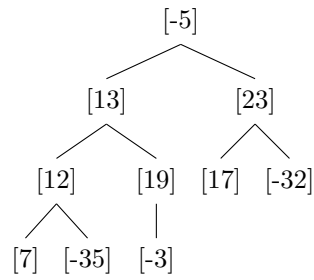
**Diagram 3:** Heap



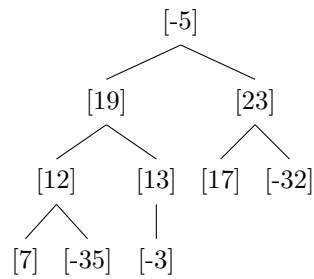
**Diagram 4:** BuildHeap 1



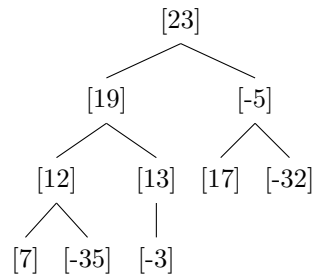
**Diagram 5:** BuildHeap 2



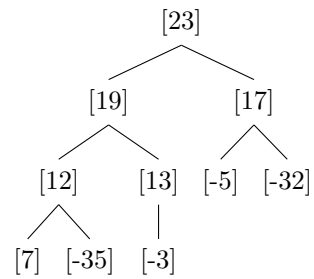
**Diagram 6:** BuildHeap 3



**Diagram 7:** BuildHeap 4

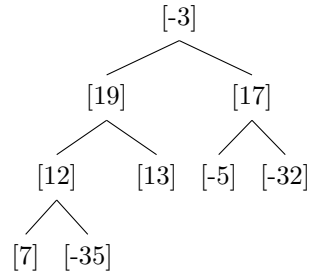


**Diagram 8:** BuildHeap 5



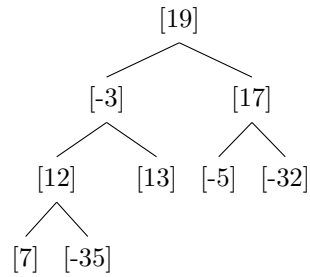
**Diagram 9:** BuildHeap 6

$$a[] = \{-, -, -, -, -, -, -, -, -, 23\}$$



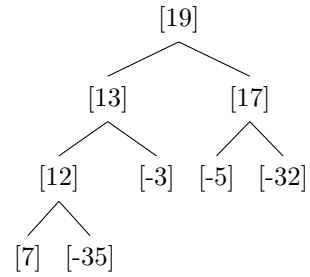
**Diagram 10:** HeapSort 1

$$a[] = \{-, -, -, -, -, -, -, -, -, 23\}$$



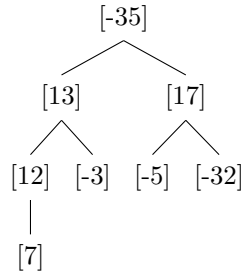
**Diagram 11:** HeapSort 2

$$a[] = \{-, -, -, -, -, -, -, -, -, 23\}$$



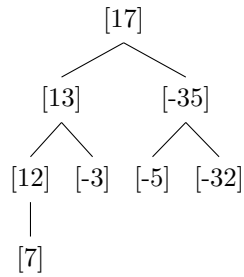
**Diagram 12:** HeapSort 3

$$a[] = \{-, -, -, -, -, -, -, -, 19, 23\}$$



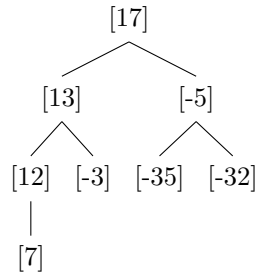
**Diagram 13:** HeapSort 4

$$a[] = \{-, -, -, -, -, -, -, -, 19, 23\}$$



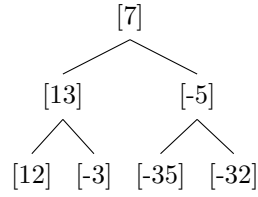
**Diagram 14:** HeapSort 5

$$a[] = \{-, -, -, -, -, -, -, -, 19, 23\}$$



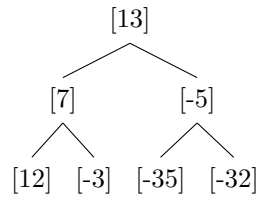
**Diagram 15:** HeapSort 6

$$a[] = \{-, -, -, -, -, -, -, 17, 19, 23\}$$



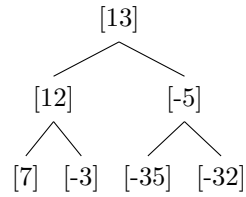
**Diagram 16:** HeapSort 7

$$a[] = \{-, -, -, -, -, -, -, 17, 19, 23\}$$



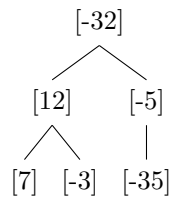
**Diagram 17:** HeapSort 8

$$a[] = \{-, -, -, -, -, -, -, 17, 19, 23\}$$



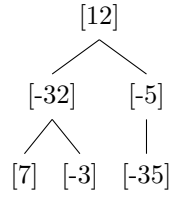
**Diagram 18:** HeapSort 9

$$a[] = \{-, -, -, -, -, -, 13, 17, 19, 23\}$$



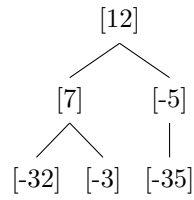
**Diagram 19:** HeapSort 10

$$a[] = \{-, -, -, -, -, -, 13, 17, 19, 23\}$$



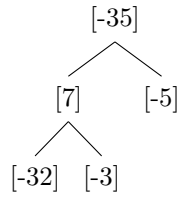
**Diagram 20:** HeapSort 11

$$a[] = \{-, -, -, -, -, -, 13, 17, 19, 23\}$$



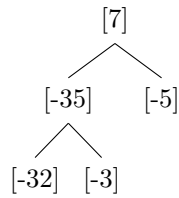
**Diagram 21:** HeapSort 12

$$a[] = \{-, -, -, -, -, 12, 13, 17, 19, 23\}$$



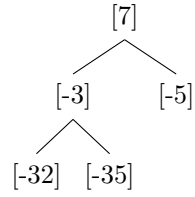
**Diagram 22:** HeapSort 13

$$a[] = \{-, -, -, -, -, 12, 13, 17, 19, 23\}$$



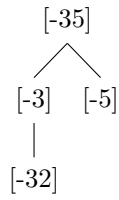
**Diagram 23:** HeapSort 14

$$a[] = \{-, -, -, -, -, 12, 13, 17, 19, 23\}$$



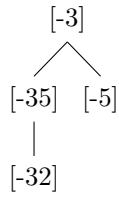
**Diagram 24:** HeapSort 15

$$a[] = \{-, -, -, -, 7, 12, 13, 17, 19, 23\}$$



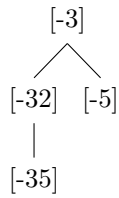
**Diagram 25:** HeapSort 16

$$a[] = \{-, -, -, -, 7, 12, 13, 17, 19, 23\}$$



**Diagram 26:** HeapSort 17

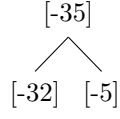
$$a[] = \{-, -, -, -, 7, 12, 13, 17, 19, 23\}$$



**Diagram 27:** HeapSort 18

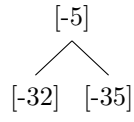


$$a[] = \{-, -, -, -3, 7, 12, 13, 17, 19, 23\}$$



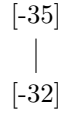
**Diagram 28:** HeapSort 19

$$a[] = \{-, -, -, -3, 7, 12, 13, 17, 19, 23\}$$



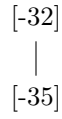
**Diagram 29:** HeapSort 20

$$a[] = \{-, -, -5, -3, 7, 12, 13, 17, 19, 23\}$$



**Diagram 30:** HeapSort 21

$$a[] = \{-, -, -5, -3, 7, 12, 13, 17, 19, 23\}$$



**Diagram 31:** HeapSort 22

$$a[] = \{-, -32, -5, -3, 7, 12, 13, 17, 19, 23\}$$



**Diagram 32:** HeapSort 23

$$a[] = \{-35, -32, -5, -3, 7, 12, 13, 17, 19, 23\}$$

**Diagram 33:** HeapSort 24