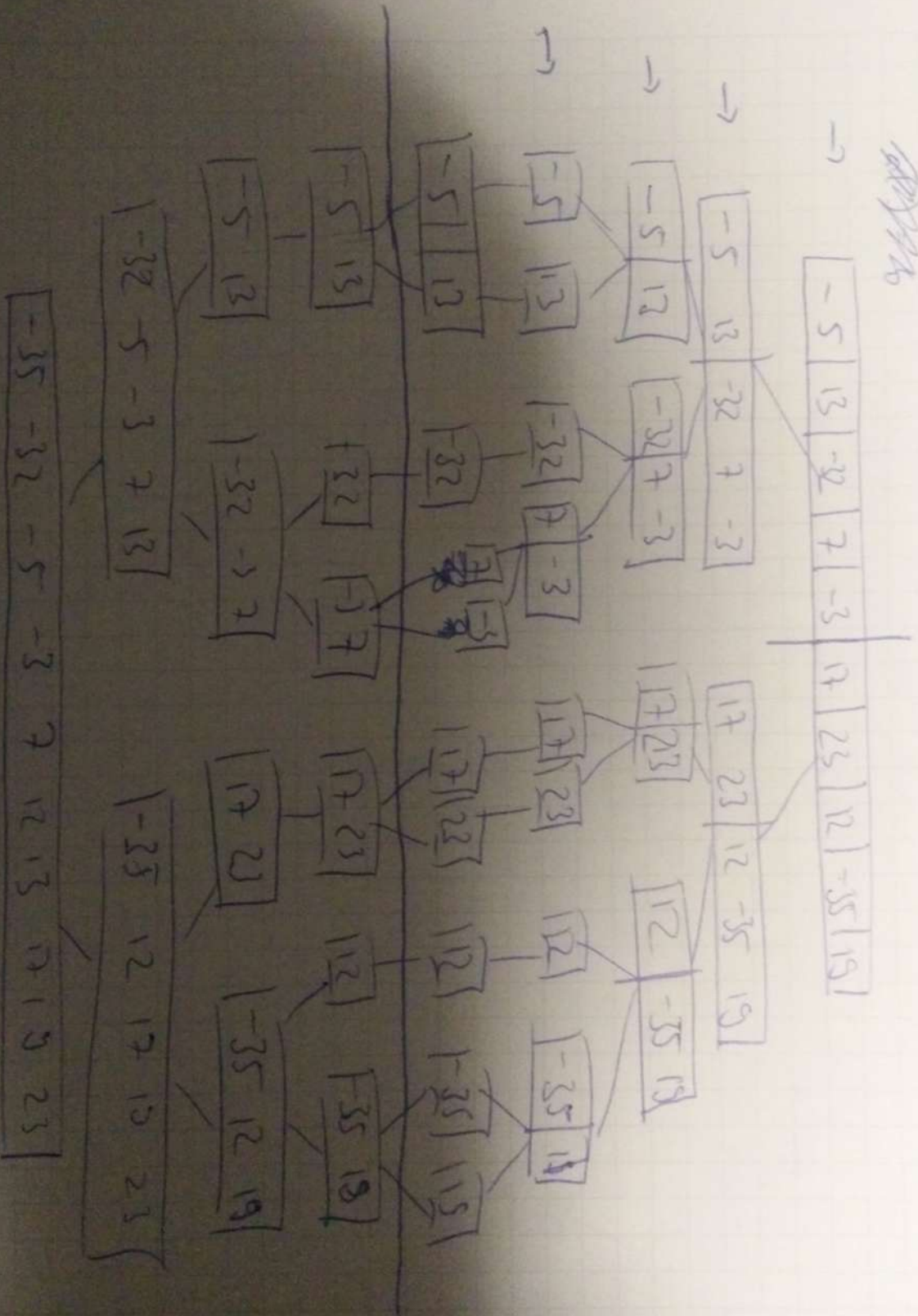


A1 Log-Sort

10/1/2020



Handwritten notes and scribbles on the left margin, including the text "Log-Sort" and some illegible markings.

1) Gold-vel

23

$2x^2 - 3x - 5$   
 $12x^2 - 75x - 17$   
 $3x^2 - 35x - 7$

2) 25-13

13 ~~10~~ 12  
12 ~~3~~ -5 -12  
2 -55 -823

123
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 $\frac{1}{2} \times 100$

$$\overline{12115123}$$
$$\begin{array}{r} -12 - \cancel{35} - 3 \\ -35 \cancel{12} - 35 - 2 \\ \hline 7 \mid 12 \mid 3 \mid 17 \mid 10 \mid 23 \end{array}$$

57	10	7	5	2	7	5	12	5	1	55
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~~55~~

52	19	17	15	12	7	3	1	5	1	5
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~~55~~  
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~~52~~

52	19	17	15	12	7	5	1	5	1	5
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~~55~~  
~~52~~  
~~55~~  
~~58~~  
~~28~~

52	19	17	15	12	7	3	1	5	1	5
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~~52~~  
~~55~~  
~~5~~  
~~55~~

11/11/11

11

A4

Algo:

1. Sortieren mittels Merge / Heapsort
2. Suche für jede Zahl eine Zahl die mit der ersten Zahl die gesucht wurde zusammen ergibt
3. Suche mittels Brute Force Suche im sortierten Feld

$$T(n) = \underbrace{n \cdot \log(n)}_{\text{Merge Sort}} + n \cdot \underbrace{\log(n)}_{\text{Brute Force Suche}}$$

$$= 2n \log(n)$$

$$\Rightarrow T(n) \in O(n \cdot \log(n))$$

$$f + (6 - f + 1 - 2) / 2$$

$$f + (1 - f - 1) / 2$$