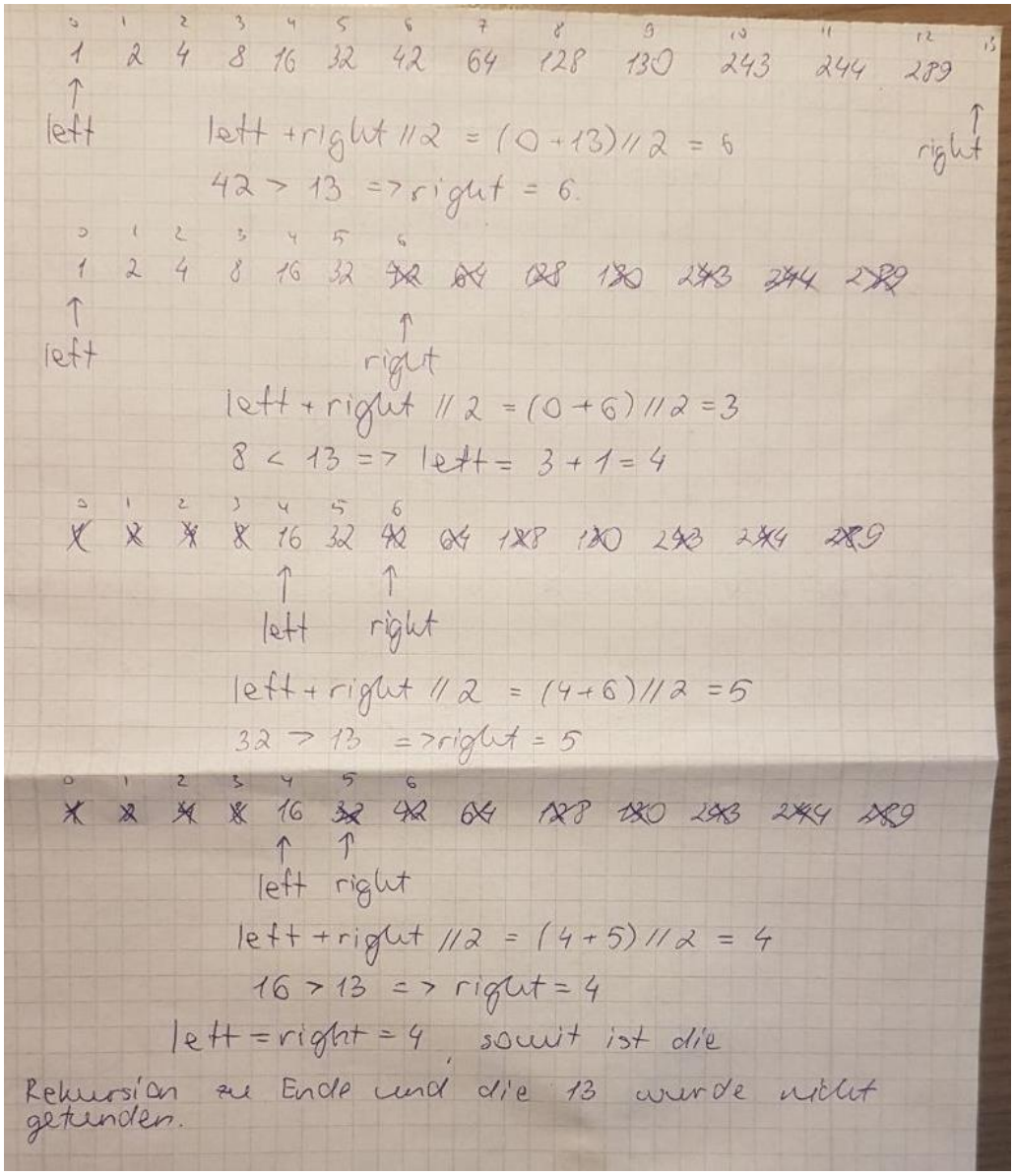
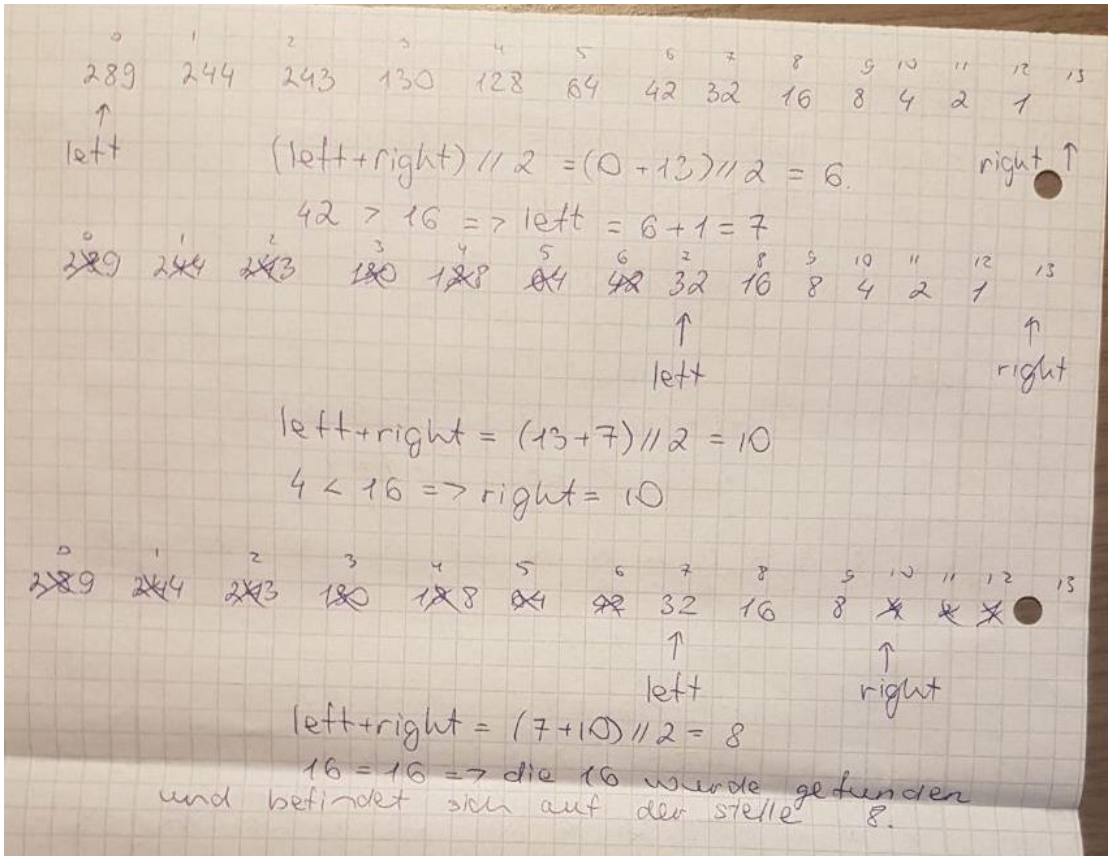
*Aufgabe 1a*


0 1 2 3 4 5 6 7 8 9 10 11 12
1 2 4 8 16 32 42 64 128 130 243 244 289
left
right
left + right // 2 = (0 + 13) // 2 = 6
42 > 13 => right = 6.
left
right
left + right // 2 = (0 + 6) // 2 = 3
8 < 13 => left = 3 + 1 = 4
left
right
left + right // 2 = (4 + 6) // 2 = 5
32 > 13 => right = 5
left right
left + right // 2 = (4 + 5) // 2 = 4
16 > 13 => right = 4
left = right = 4 somit ist die
Rekursion zu Ende und die 13 wurde nicht
gefunden.

*Aufgabe 2a*




*Aufgabe2b*