

B)

$$A_1, \dots, 100, 1, 2, 4, \dots, 2^k$$

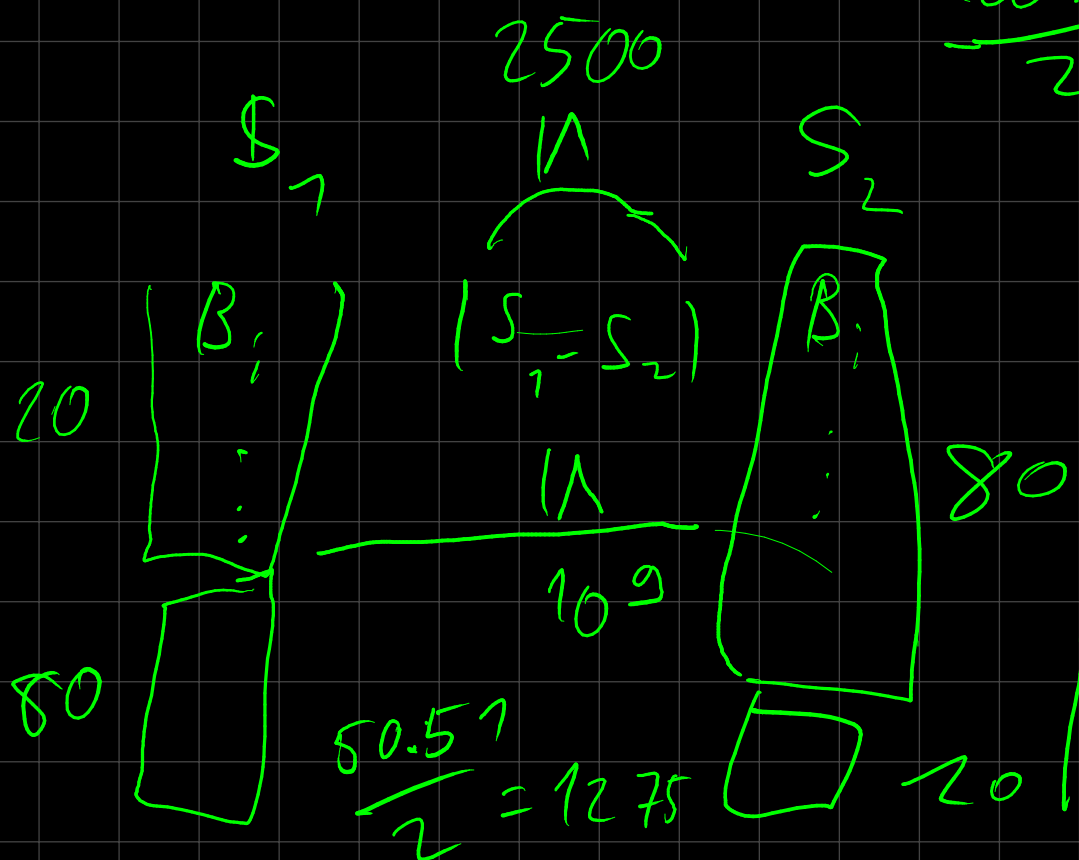
$$B_1, \dots, B_{100}$$

$$2^k + 1, 2^k - 1$$

$$2^{30} > 10^9$$

$$S = \underbrace{\sum A_i}_{10^k} + \underbrace{\sum B_i}_{< 10^{11}}$$

$$\frac{100 \cdot 10^{11}}{2} = \text{Ans} = 3775$$



$$50 \cdot 10^9 \approx \underline{\underline{36}} \text{ Gits}$$

1 0 0 0 0 1

1
1 1 0 0
1 0 0
1 0
1 1 0
1 0 1
1 1

*
* 0 1 | .
1 1
1 1
* 0 1
1 1
* 0 1
1 1
1 0 1
1 1

$$L = R + D$$

$$R + a_i$$

$$\frac{3}{2}D > a_i \geq \frac{D}{2}$$

$$\Rightarrow (L - R) < \frac{D}{2}$$

1 0 0 0 0 6

1 0 ...
1 ...
1 0 0
1 0
1

1 1 0
1 0
1 0 0 0
1 0 1
1 1
1 + ... + 8 = 28

1, 2, 3, 5, 8, 13

21, 34, 55

$$54 = 34 + 13 + 5 + 2$$

$$D < a_k$$

1 0 0 0 ≥ 8
1 0 1
1 1

$$a_{k+1} = \frac{a_k + 1}{2}$$