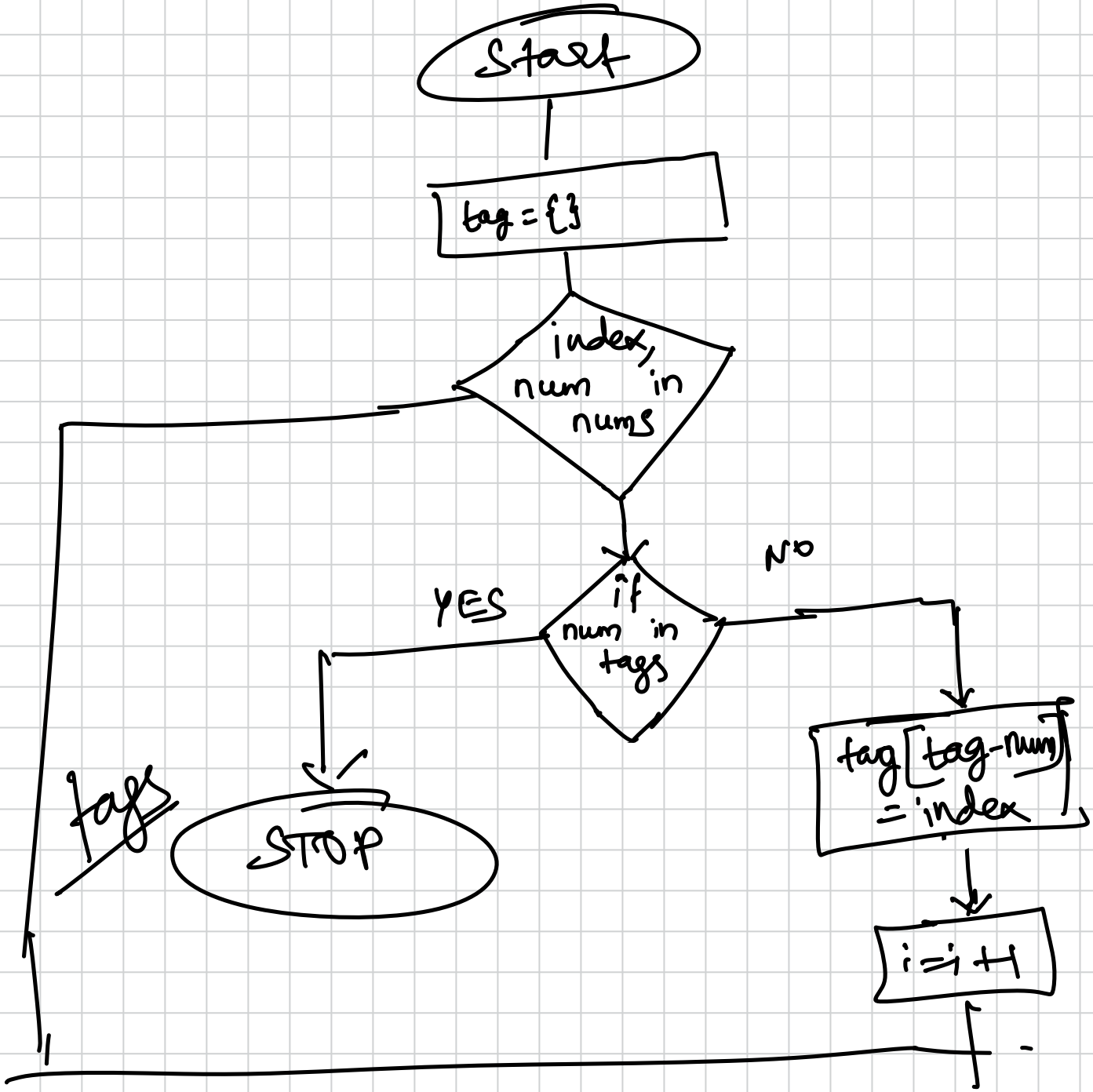
1. Two Sum

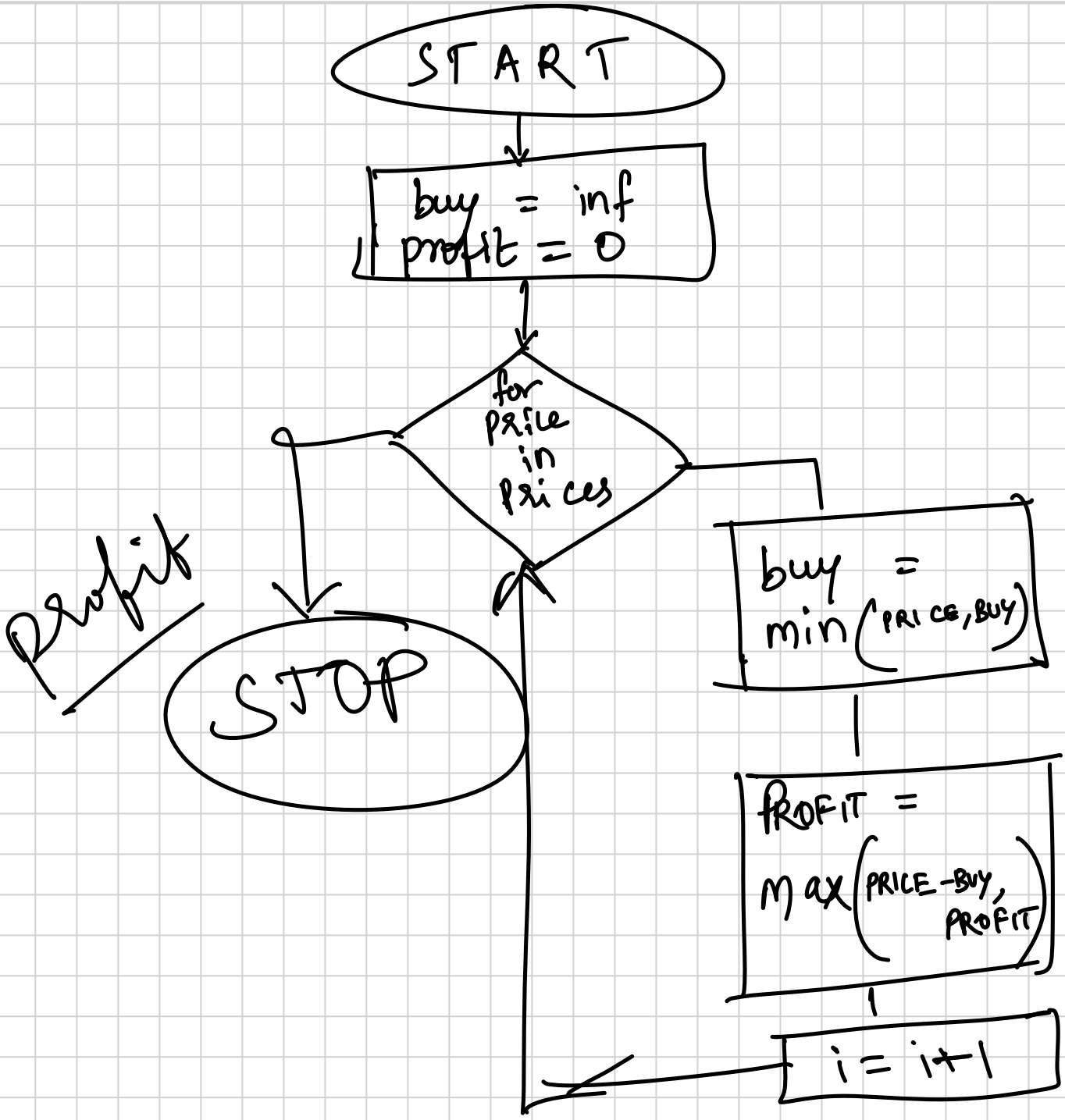
Given - array of integers.

Return - indices of two number adds up to the target



2. Buy or Sell Stocks

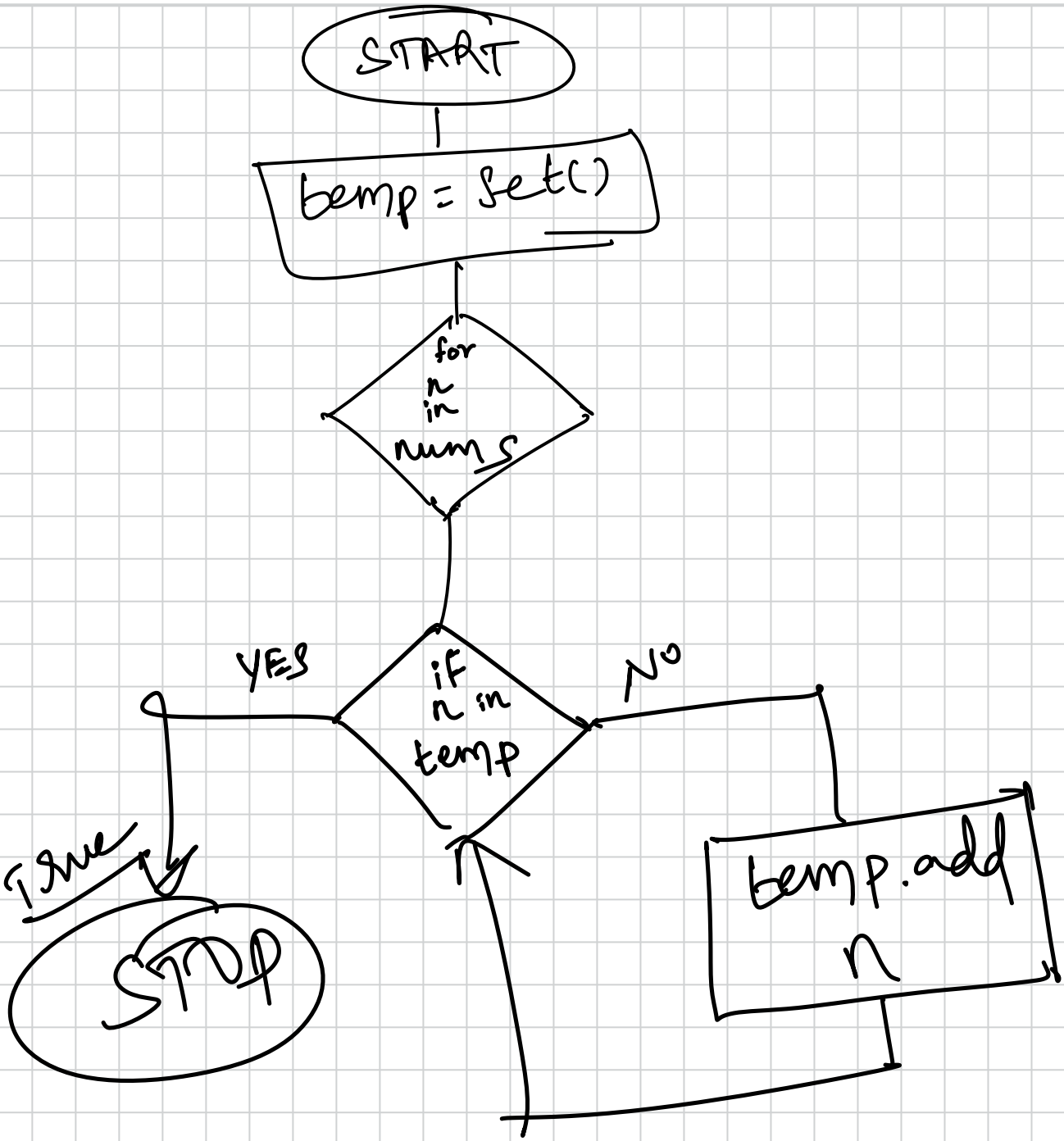
Given: a list of prices of stock.
Output: maximum profit possible considering buying and selling dates.



Q3. Contains duplicate

Input: array of numbers (int)

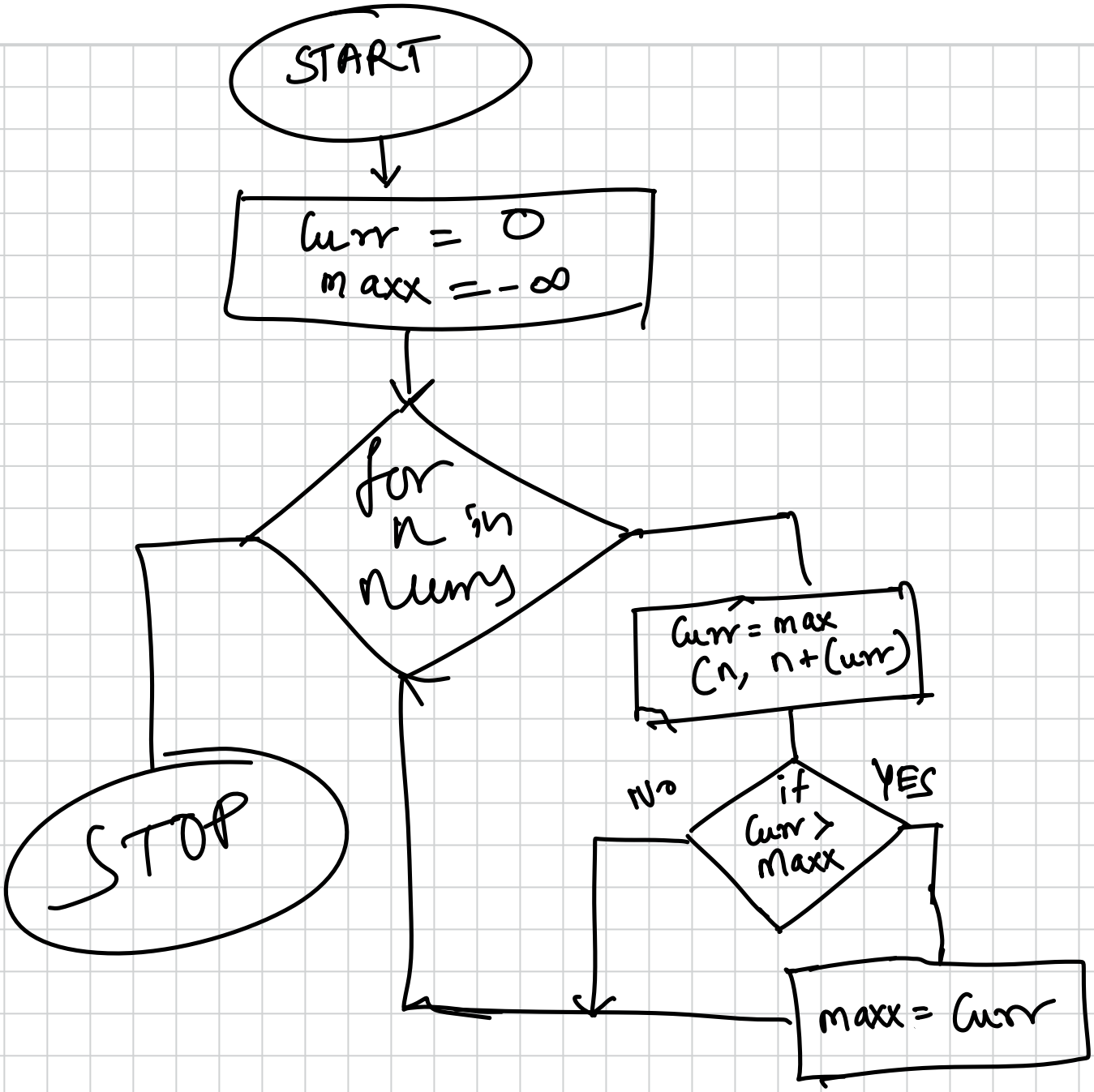
Output: YES if duplicate present
No if unique



Q4. MAXimum SUB ARRAY

Input : integer array

Output : Subarray with maximum Sum



Chapter 2 Bits

MASK = 0b111 1111 1111 1111 1111 1111 1111 1111

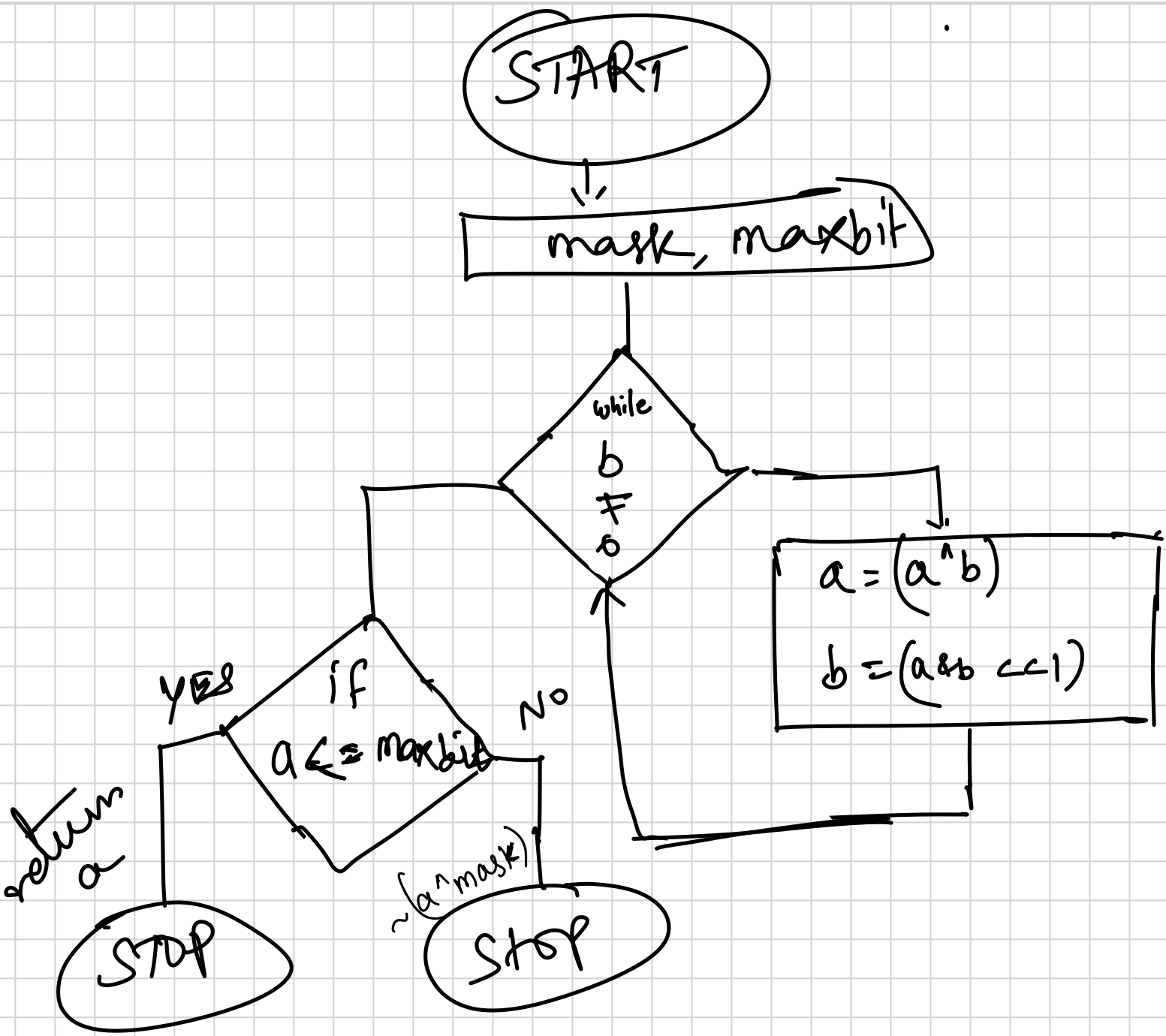
max = 0b01111 1111 1111 1111 1111 1111 1111 1111

	eg: a=1 b=0	eg: a=1 b=1
a^b	0	1
a&b	0	1
a<<1	10	10
a|b	1	1
(1<<a)&b	10 & 0 → 0	10 & 1 → 0
a&(1<<b)	1 & 1 → 1	1 & 10 = 0
b<<(31-a)	0	100000000000000000000000000000
~a	0	0

5- Sum of two integers.

Input: two integers

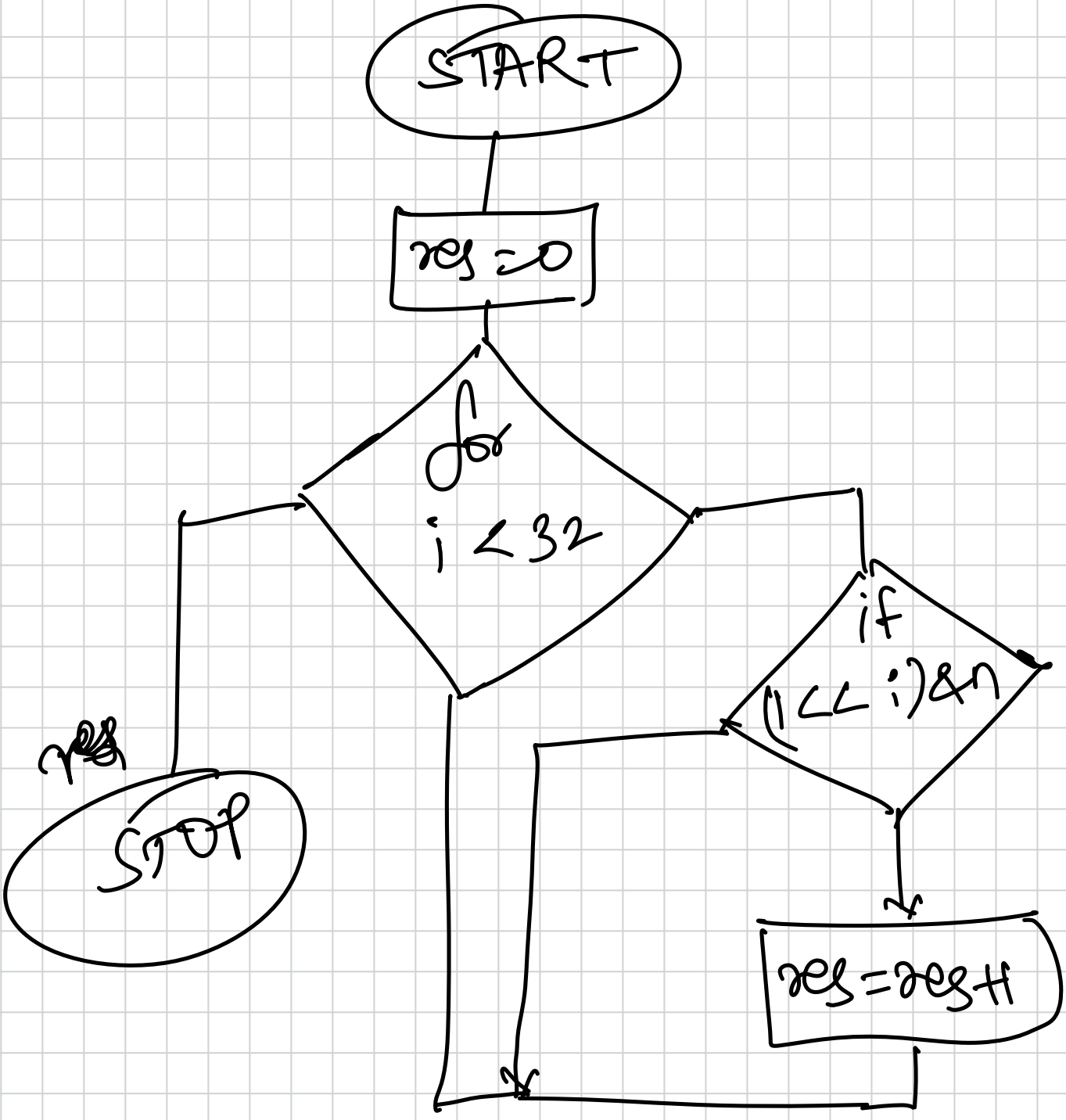
Output: Add them without '+' or '-'.



6. Number of 1 bit

Input: unsigned integer

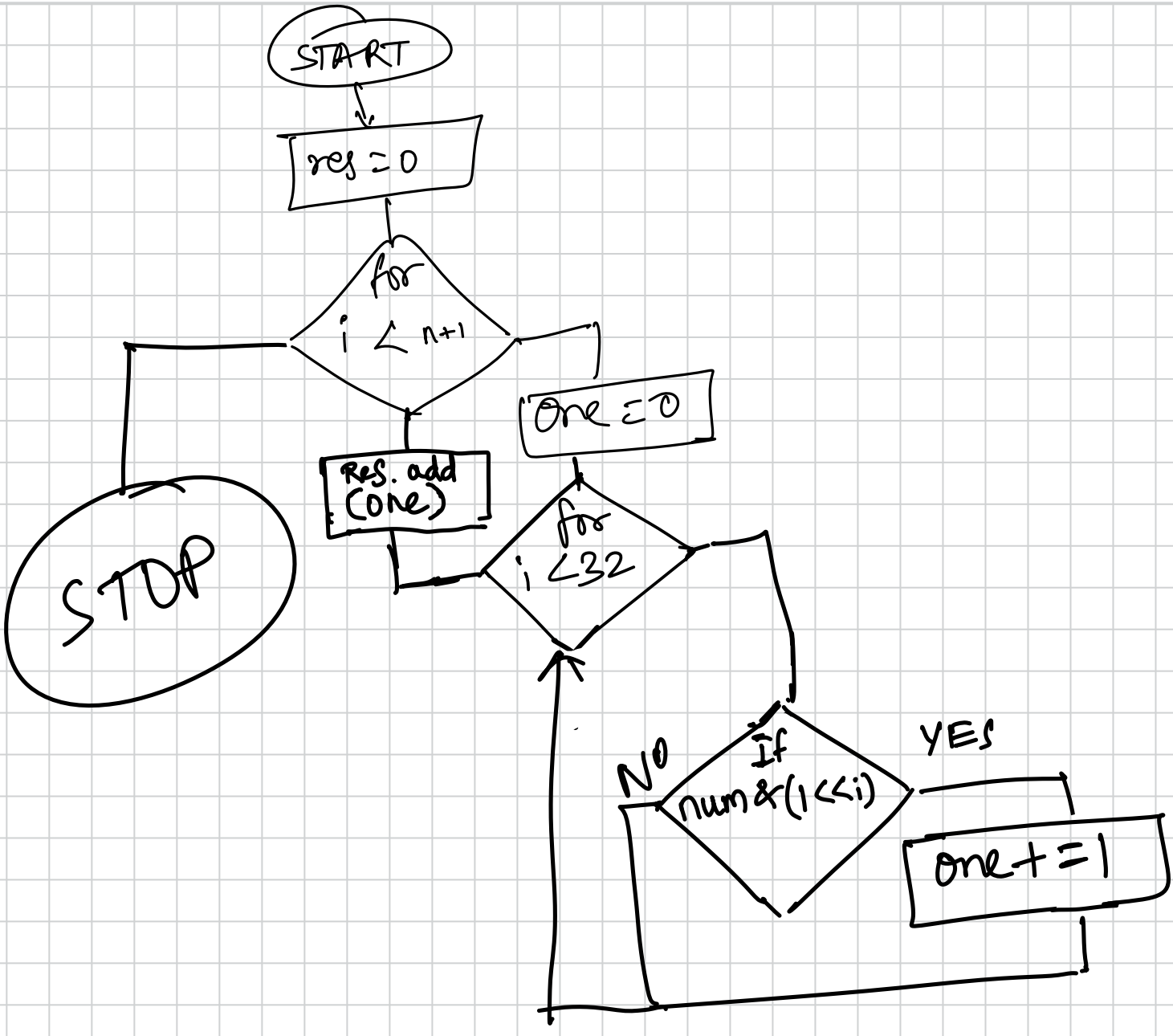
Output: Number of 1's in binary



7. Counting Bit

input: integer n

output: number of 1's in range (0, n).



8. Reverse Bit

Given: unsigned integer

Output: Reverse bin & return Integer.