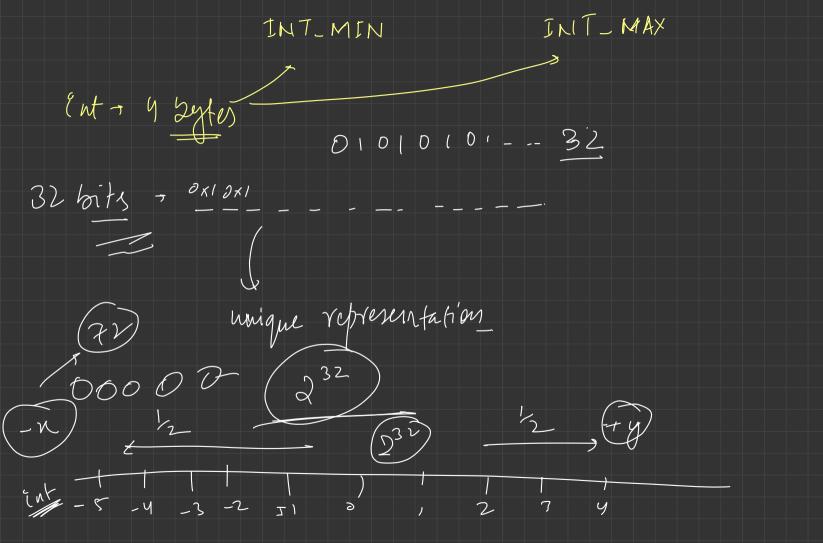
= 8 bits 7,1 Data Types Size (memory) -1 MB → 1 megabyte 1 kilo byte 1 tim 4 byti — + float 4 byti Sdigits the charge of th byto b - 99999 1 Syle 7 8 6it 12 symbols 2 digits 00-99 Binary System (0,1) 0-1111111 Solitates > 0 - 1/1/1 in binow g system more the w. of buts, larger are called bits Values we can store!

26is - 1007 8bits
1000 - 10000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 1 byte - s can store 2 values 1 byte of storage available 8 volus 10) 110 2x Himls {1-256), 257, 258, 0, -1, -2 represent ?? Ent -s -ve, 0, eve 5 10 digit de and value int: 4 bytes regetive values, 0, partive values

$$\frac{3^{32}}{2} = \frac{2^{31}}{2^{1}} = \frac{3^{31}}{2^{1}} = \frac{3^{31}(1+1)}{2^{1}} = \frac{3^{31}(1+1)}{2^{1}} = \frac{3^{31}}{2^{1}} = \frac{3^{31}}{2^{1}}$$

to 2147483647



cy 31 tox values with 32 bit representation

Whether 1+15 regative or positive (0)?

floot 48.5642 - 3 valures after decimal

float -> 5 digits after decimal. double - 15 digits after decimal. 4 by te 2 byte Type Modifiler int, bor, char, float, double (5) long -107 -109 -1018 D short: int:4 bijte; short int: 2 bijte 52,000 to 32000 (3) signed: int: 4 byte: 32 bits: 1-bit -s eign (+)

(y) unsigned: - values only >= 0

(nt: 32 bit -> 1-bit/sign

int, signed inf
positive

values) exactly double

pontive, negative sign bit unsigned int 4 bytes = 32 31-61 t) ve inc. D 8 values 0 -> (232-1)

for (in 1; i=>10; ! { nox! furtion for (1, 2, 3, 4, 5,6 rif(i==7) 9 -continue; s cont < i < c end; (=1; (<= 100; (++) § it(1:150) { 3 Veak; contec (exampl)

Arrays relation Q. If) give you a value N, and then N integers; 4,1,2,0,5 Find Sum. of all the values. Thing Sum. gade N=5 222Ly=12 11205=12

min, max as input, and then N values. Q. Take N Print them in reverse soder. output ; i h g t e d c b a solve 21

Variable 4-2-0-1-6-5-3 item vien ilem
item ilem
An array is a container, which stores
related data, of same type in continuous memory Weations.

(array) 10 int > 40 Bytes - all these data are reffered using some name (with a sub-script).

int - 4 Bytes
10 int - 4 Bytes XID
40 Bytes