Big Endian Vs little Endian or dee in g Byta = 8 bit 32 bit 64 bit

1864 pr 16 yta

V > 8 bit 16 bit Adder content Vi 1 byte
Vi byte 15 8 V2 15 y & 16 y &

32 bit => 100 MSB 00010010001101000101011001111000 LSB

MSB

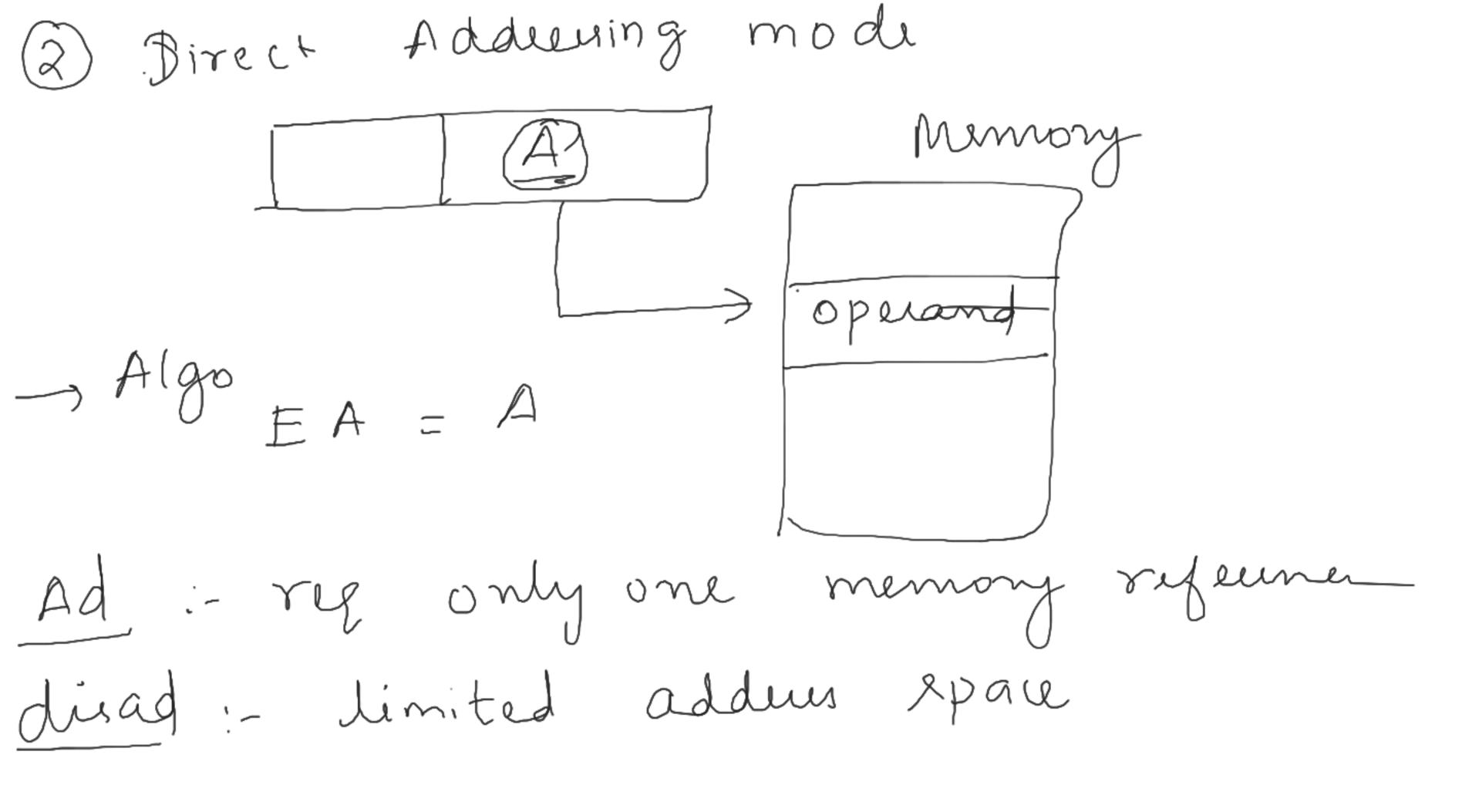
Bis Endian

Add. Content MSB

127 00010010

Add.	Content
(00	78
10)	56
102	34
103	12

Inshultion set: Addresing Set (3) Colli Coperand Cosigned bit (1) Immediate 4. Algorithm Operand = A) 2's wry L, simplest of Addencing Ad No memory reference dis Ag: - limited operand magnitive



In dêrect Memory EA = (A)Ad, word lingth N has 2 N adders space large Addres space multiple memory uf.

(4) Register Adduring Adduus fished

legers to the Reg.

rether than Opuand Algo EA = R Ad no need for time - consuming memory disas, limited added space

Adduering. Indirect Register Memory

Displacement Addressing mode Merrory -> Two add Ad flexibity Algo EA = A + (R) indirect disad complexity

(6) at Relative Addrewing Ly défense Reg is PC 6 b Bare- Rig Add Ly lef reg contains - main memory Ada+ displacement 4 may be expuirit or implicat

Indexing Le contains positive displacement (i) Autoindexing: - EA = A+ (R) $(R) \leftarrow (R) +$ (ji) post indexing EA = (A) + (R) (iii) pre indexing EA = (A+ (R))

Addleuing (7) Stack -> stacke LIFO L, linear away of location EA = top of Stack Top of Stacu disad: limited Appli cability

Ad dù ad Algo Adders'n.g mode limited operand Nomem Opeland = A Immediate limited adduppare EA = A only onl mem ref direct more than one men large add EA=(A) Indiveut EA = R rime con uni Rig limited add. Spale Erma memory ref large add E A= (R) Reg Indirect Alenihi Lite complinity EA = A + (R)displaument limited applicability No mem FA= TOD BO Stack