	WENT MAN AND AND AND AND AND AND AND AND AND A	
(I) 0=21	(I) op=19	(5) 07=24
BMN	JALM	<u>134</u>
Acglost = X	RayDst=0	2 g Os+ = X
Jump = 0	Jump=0	Jump=1
Brench = 1	Branch=1	Branch=0
Memfeed=1	Memkead=L	Membland = X Memblan X
ALU \$\pi = 00	Memblog=1	ALUO = X
Mamurite=0	ALUQ=0	Manurite =0
ALUSIC = 1	Memwite=>	ALUSIC = X
Lowiik=0	ALUSIC=1	tegwr: k=0
Sinew= 1	pogwite=1	B-new=1
flag_519=10	B-new=1	flag=00
Link=X	tleg-sig= 01 Link=1	rink=x
addr-from.mem = 1	addr. from nem= 1	odds-from-nem=x
(2) funct=20	funct =23	
BRZ	BALRN (A)	SALU (R) funct= 6
Regust = X	Regast= 1	Perdst=1
Jump = 0	Jump= 0	Jumpio
Branch=X (0)	Blanch=X (0)	Boarch=>
Memboad = X	mempad=0	Memberd=X Memberges
Mcm+oRg=0	Menterg= > 10 -> 101,	ALU 0P=10 ->100 (boyte)
ALMO = 10 -> AND	Memuriter 0 (bista)	Memwrite = 2
Mcmwrite = 0 ALUSCC=X	ALUSIC =X	Regurite =1
Legwik =X	Legwik = 1	B-new=X
B-new=1	B-new=1	fly-sig=x Link=0
flag-sig=00	flag-sig=OL	addr-fmm-mem= X
Link=X	Link-x	addr-10m-10m.
aggetim-nemet	addr_from_nen=L	

5.M-L

initially

$$50 \Rightarrow 64 = 0 \times 40 = 0100 0000$$
 $51 \Rightarrow 2$
 $53 \Rightarrow 4$
 $0 \Rightarrow 52 = 16 = 0 \times 10$
 $4 \Rightarrow mem (4) = 0 \times 10$
 $8 \Rightarrow Pc = 0 \times 10$
 $8 \Rightarrow Fc = 0 \times 10$
 $8 \Rightarrow 54 = 3e$

S.m-2

SUB \$2, \$1, \$0 0(\$3) وسم 4 \$2, \$2, \$0 0 8 -> 0000 odd \$1, \$1, \$0 12 4 (\$3) 16 bma 20 add \$2, \$1, 53 0010 24 add \$2, \$2, \$0 7 000

> 51 = 7 mem [8] = 12 50 - 312 mem [12] = 24 50 - 38

0 > \$2= 9 4 > branch to 12 8 -> X 12 > \$2= 0x13 26 -> Branch X 20 -> \$2= 0xf 24 -> \$2= 0x16

$$50 - 7 - 1$$

 $50 - 7 - 1$
 $51 - 31$
 $53 - 312$ (oxc)
 $54 - 34$
 $57 - 324$ (ox18)
Mem (4) = 0x34

5.m_4

0 add \$2, 50, 51 0 00 10 10 20

4 bz (3") 20110 000 000 000 000 000 000 000 000

8 5w \$3,0(\$4) -) 9c &1 00 00

12 add \$2, \$1, \$1 0 00 41 10 20

16 bz (6") 20110 000 000 000 000 000 000 000

20 1w \$0, a(\$4) => &c &0 00 00

24 add \$2, \$0, \$1 >> 00 01 10 20

10i+icl $40 \Rightarrow -4$ $31 \Rightarrow 1$ $51 \Rightarrow 20 \text{ (ox 14)}$ $54 \Rightarrow 4$ $54 \Rightarrow 4$ $54 \Rightarrow 6$

0 -) \$2 = 0 4 3 Branch to 12 8 3 X 12 3 \$2 = 1 16 3 Branch X 20 1 \$0 = 0x27

```
5m- 9
```

> \$ = 12 (0xc) \$1 = 7 \$3 = 12 (0xc) 34 = 24 (0x18)

1 = 1

0 => 51= -9 4-> Bruch to 12 8-> X (2-> 51= 12 (== x 13) 10-> branch X 20-> 32= 0x14

