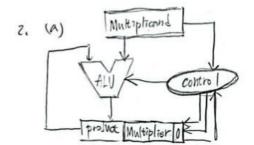
Leerman	step	Pemainser	Divisor
0	shift left Renumber 1 bit	00000001 golao110	00011100
1	lete Romander -= Vivisor	11100101 00100110	00011100
2	+1.4 Romander 50		- 1
	if left Remainer < 0 left Remainer 1 = Valuar	peccool ecteollo	
4	LA LA company 1 lit	00000010 01001100	
2	of met repetition 9th		
	1		
19	shift left Reminder 1 live	00100100 11000000	
2.0	if her repetition 19th		,
21	left Forminger -: Divisor	00001000 11000000	
22	iflete Rominbr >0	110	
2.5	if left Remointer 20 shift left Remonder 1 bit and set 1	0001000/ 1000001	
24	of mer venetion 19th		
52	efe Rominder -= Divisor	11110101 1000001	
56	if not rejection geh left Remailder -= Divisor it left Remailder co left Remailder += Divisor		
27	left Remainder += Div750+	000/000 1000000	
28	With left Kemainuer I hit	00/00011 0000000	
	If not repetition 19th		
3/	left Remainder -= Divisor	0000011 0000010	
32	the ket Kantinder 20	An Hall ampacel i	1
	shift left Remainler 1 bit	0000110 0000010	
33	it repetition 19th		
34	left Pensylar cal Lill		
	left Remailder shift left like	00000 [[] 00 00010 ]	

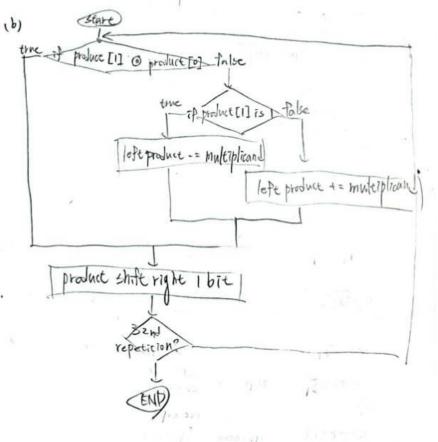


(C) in some cases,

Booth's algorithm can achieve

the goal with less computation

than the original multiplication method.



- 4. (a) \$3125 . \$106 3 1.0101 x 20
  - (b) 10011000.01 + 0.010101010101
    - = 1.001100001 x Z7 + 1.01010101 x Z-2
    - = 1.001100001 x Z"+ 0.000000000101010101 x Z"
    - = 1.001100010010101 x Z7
    - 0 0011 001100010010101010 | Award=0村主 4R3 ( round=1 村主 4R3 ( sticky=010...0)
  - € 0 00111 00110001001010101 ×
  - 10) 110.0111001 x 1000,01101
    - = 1.100111001 x Z x 1.00001101 x 23
    - = 110110. colol1100101 x z (2+3)
    - = 1.10|1000|01100101 x 2(545)
    - 0 01010 101100010111001010 | front = 1 # 2 / Frety = 0(0...0)
    - =) 0 01010 10 1100010 111 001

4. (a) 0.303 - 20106 3 1.0101 x 20

- (b) 10011000.01 + 0.0101010101
  - = 1.001100001 x 2 + 1.01010101 x Z-2
  - = 1.001100001 x Z"+ 0.00000000010101010/x Z"
  - = 1.00110001001010101 × Z1
    - 0 0011 0011000100101010 | huard = 1 1/4 1/2 | round = 0 410ky 1
  - € 0 00111 0011000101 ¥
  - 16) 110,0111001 x 1000,01101
    - = 1.100111001 x Z x 1.00001101 x 23
    - = 110110.001011100101 XZ(2+3)
    - = 1.1011000101100101 x 2(2+2)
    - 0 01010 10110001011001010 | found = 1 2/2 16
  - =) 0 clo/o /o /loco//o