19 Yes. if it is definite, effectively computable and finite.

1.11 O not definite: loop for almost 100 times. It is not an algorithm because the computer doesn't know how many times to loop exactly.

① not effective computable: find an integer n and $n^2 = -1$. There is no such an integer.

3 not finite: loop forever. It will never stop without any output.

1.16 The number of opcodes, data types, addressing modes.

1.18 A single microarchitecture implements one ISA. Many microarchitecture usually exist for a single ISA.

2.8

a. binary: 0111,1111 decimal: 127

b. binary: 1000,0000 decimal: -128

c. 2"-1

d.-2 n-1

2.14 a. 1011 + 0001 = 1100

b. 0000 + [0]0 = [0]0

C. 1100 + 00 11 = 1111

d. 0101+0110=1011

e. /111 + 000/= 0000

	1.24 , , and 0000,0000, 0000,0001							
= NOT (1000) = 0111 b. NOT (1000 AND 1101) = NOT (1000) = 0111		•			positive	but thei	r sum is	
b. NOT(1000 AND 1101) = NOT(1000) = 0111 - 1101	·34 Q.=	NOT((OII AN	P 1100)					
= NOT (1000) = 0111 C. /101	-	MT (1000) =	0111					
C. //0 /	b. NOTC (000 AND 1101)					
C. //o! d. DIIO	= NOT (1	000) = 0111						
d. 0110	c. //01							
	1. 0110							