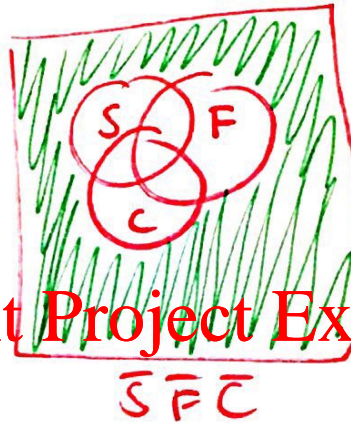
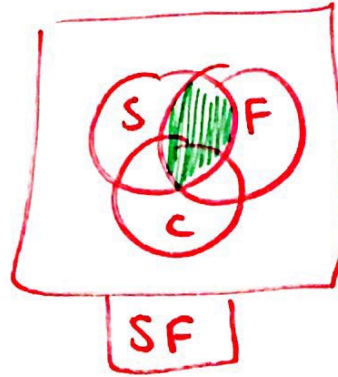
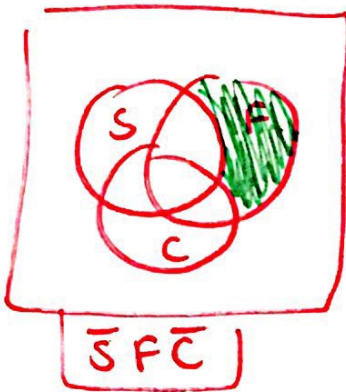


SUMMER 2019 FINAL SOLUTION

①



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Add WeChat powcoder

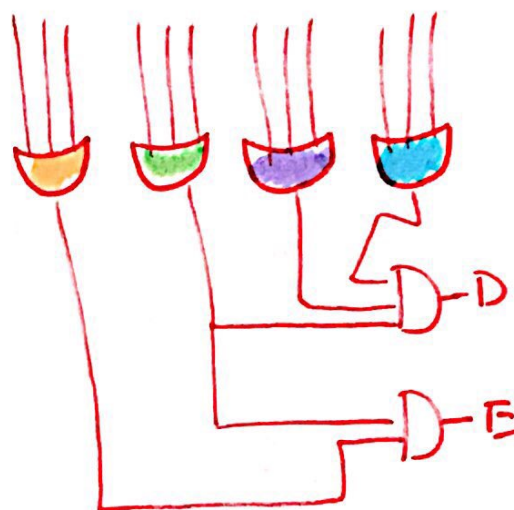


$$\bar{S} F \bar{C} + S F + C + \bar{S} \bar{F} \bar{C}$$

$$= \overline{S \bar{F} \bar{C}}$$

②

A	B	C	D	E
0	0	0	1	<u>0</u>
0	0	1	1	1
0	1	0	1	1
0	1	1	<u>0</u>	1
1	0	0	1	1
1	0	1	1	1
1	1	0	<u>0</u>	<u>0</u>
1	1	1	<u>0</u>	1



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$$D = (\bar{A} + \bar{B} + C)(\bar{A} + B + \bar{C})(A + \bar{B} + \bar{C})$$

$$E = (A + B + C)(\bar{A} + \bar{B} + \bar{C})$$

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} POS

$$D = \bar{A}\bar{B}\bar{C} + \bar{A}\bar{B}C + \bar{A}B\bar{C} + A\bar{B}\bar{C} + A\bar{B}C$$

$$E = \bar{A}\bar{B}C + \bar{A}B\bar{C} + \bar{A}BC + A\bar{B}\bar{C} + A\bar{B}C + ABC$$

} SOP

④ -0.9 -0.11100 (A)

$0.9 \times 2 = 1.8$

$0.8 \times 2 = 1.6$

$0.6 \times 2 = 1.2$

$0.2 \times 2 = 0.4$

$0.4 \times 2 = 0.8$

$0.8 \times 2 = 1.6$ ← repeats here

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⑤ $-0.11100 = -1.1100 \times 2^{-1}$

⑥ $= -1.11001100110011001100110 \times 2^{-1}$

↑ sign

mantissa

↑
-1 + 127
= 126
↑
exp

sign: 1

exp: 01111110

mantissa: 11001100110011001100110

⑤

1	0	1	1	1	1	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0
B		F				6				6				6				6				6				6			6

0xBF666666

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\$8 = \$50  \$3 = \$V1

Immed

 $\uparrow \quad \pi \quad R_S$

Immed

Immed

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16 0x00000000?

* 170x0000001c

19 0x00000000?

200x1001bb07

$$*0x07 = 00000111$$
$$00000111 \ll 2 = 00011100 = 0x1C$$