

Question 1: Fill in the missing entries for the expression: not (A and not B or not C or D and E)

Option 1: 0100011111011110

Option 2: 0010010000000010

Option 3: 0001101001001101

Option 4: 0001101011101010

[illegible]

Answer:

A		B		C		D		E		F
1		1		1		1		1		0
2		1		1		0		0		1
3		1		1		1		1		0
4		1		1		1		1		0
5		1		1		1		1		0
6		1		1		1		1		0
7		1		1		1		1		0
8		1		1		1		1		0
9		1		1		1		1		0
10		1		1		1		1		0
11		1		1		1		1		0
12		1		1		1		1		0
13		1		1		1		1		0
14		1		1		1		1		0
15		1		1		1		1		0
16		1		1		1		1		0
17		1		1		1		1		0
18		1		1		1		1		0
19		1		1		1		1		0
20		1		1		1		1		0
21		1		1		1		1		0
22		1		1		1		1		0
23		1		1		1		1		0
24		1		1		1		1		0
25		1		1		1		1		0
26		1		1		1		1		0
27		1		1		1		1		0
28		1		1		1		1		0
29		1		1		1		1		0
30		1		1		1		1		0
31		1		1		1		1		0
32		1		1		1		1		0
33		1		1		1		1		0
34		1		1		1		1		0
35		1		1		1		1		0
36		1		1		1		1		0
37		1		1		1		1		0
38		1		1		1		1		0
39		1		1		1		1		0
40		1		1		1		1		0
41		1		1		1		1		0
42		1		1		1		1		0
43		1		1		1		1		0
44		1		1		1		1		0
45		1		1		1		1		0
46		1		1		1		1		0
47		1		1		1		1		0
48		1		1		1		1		0
49		1		1		1		1		0
50		1		1		1		1		0
51		1		1		1		1		0
52		1		1		1		1		0
53		1		1		1		1		0
54		1		1		1		1		0
55		1		1		1		1		0
56		1		1		1		1		0
57		1		1		1		1		0
58		1		1		1		1		0
59		1		1		1		1		0
60		1		1		1		1		0
61		1		1		1		1		0
62		1		1		1		1		0
63		1		1		1		1		0
64		1		1		1		1		0
65		1		1		1		1		0
66		1		1		1		1		0
67		1		1		1		1		0
68		1		1		1		1		0
69		1		1		1		1		0
70		1		1		1		1		0
71		1		1		1		1		0
72		1		1		1		1		0
73		1		1		1		1		0
74		1		1		1		1		0
75		1		1		1		1		0
76		1		1		1		1		0
77		1		1		1		1		0
78		1		1		1		1		0
79		1		1		1		1		0
80		1		1		1		1		0
81		1		1		1		1		0
82		1		1		1		1		0
83		1		1		1		1		0
84		1		1		1		1		0
85		1		1		1		1		0
86		1		1		1		1		0
87		1		1		1		1		0
88		1		1		1		1		0
89		1		1		1		1		0
90		1		1		1		1		0
91		1		1		1		1		0
92		1		1		1		1		0
93		1		1		1		1		0
94		1		1		1		1		0
95		1		1		1		1		0
96		1		1		1		1		0
97		1		1		1		1		0
98		1		1		1		1		0
99		1		1		1		1		0
100		1		1		1		1		0

Question 2: Fill in the missing entries for the expression: A or B and C and not D or E

Option 1: 0110101110111111

Option 2: 0101001001111111

Option 3: 1110101011011110

Option 4: 1110101001101110

[illegible]

Answer:

[illegible]

Question 3: Fill in the missing entries for the expression: A or B or not C or not D

Option 1: 11110011

Option 2: 11101111

Option 3: 00100110

Option 4: 00001100

A	B	C	D	Q
0	0	0	0	?
0	0	0	1	?
0	0	1	0	?
0	0	1	1	?
0	1	0	0	1
0	1	0	1	1
0	1	1	0	1
0	1	1	1	?
1	0	0	0	?
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	?
1	1	1	0	1
1	1	1	1	?

Answer:

A	B	C	D	Q
0	0	0	0	1
0	0	0	1	1
0	0	1	0	1
0	0	1	1	0
0	1	0	0	1
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	1
1	1	0	0	1
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

Question 4: Fill in the missing entries for the expression: not (A and not B or C or D and not E)

Option 1: 1000110010001101

Option 2: 1001011011011011

Option 3: 1100101000000010

Option 4: 1001010111101101

[illegible]

Answer:

A		B		C		D		E		F
1		1		1		1		1		0
2		1		1		0		0		0
3		0		1		1		1		0
4		0		1		1		1		0
5		0		1		1		1		0
6		0		1		1		1		0
7		0		1		1		1		0
8		0		1		1		1		0
9		0		1		1		1		0
10		0		1		1		1		0
11		0		1		1		1		0
12		0		1		1		1		0
13		0		1		1		1		0
14		0		1		1		1		0
15		0		1		1		1		0
16		0		1		1		1		0
17		0		1		1		1		0
18		0		1		1		1		0
19		0		1		1		1		0
20		0		1		1		1		0
21		0		1		1		1		0
22		0		1		1		1		0
23		0		1		1		1		0
24		0		1		1		1		0
25		0		1		1		1		0
26		0		1		1		1		0
27		0		1		1		1		0
28		0		1		1		1		0
29		0		1		1		1		0
30		0		1		1		1		0
31		0		1		1		1		0
32		0		1		1		1		0
33		0		1		1		1		0
34		0		1		1		1		0
35		0		1		1		1		0
36		0		1		1		1		0
37		0		1		1		1		0
38		0		1		1		1		0
39		0		1		1		1		0
40		0		1		1		1		0
41		0		1		1		1		0
42		0		1		1		1		0
43		0		1		1		1		0
44		0		1		1		1		0
45		0		1		1		1		0
46		0		1		1		1		0
47		0		1		1		1		0
48		0		1		1		1		0
49		0		1		1		1		0
50		0		1		1		1		0
51		0		1		1		1		0
52		0		1		1		1		0
53		0		1		1		1		0
54		0		1		1		1		0
55		0		1		1		1		0
56		0		1		1		1		0
57		0		1		1		1		0
58		0		1		1		1		0
59		0		1		1		1		0
60		0		1		1		1		0
61		0		1		1		1		0
62		0		1		1		1		0
63		0		1		1		1		0
64		0		1		1		1		0
65		0		1		1		1		0
66		0		1		1		1		0
67		0		1		1		1		0
68		0		1		1		1		0
69		0		1		1		1		0
70		0		1		1		1		0
71		0		1		1		1		0
72		0		1		1		1		0
73		0		1		1		1		0
74		0		1		1		1		0
75		0		1		1		1		0
76		0		1		1		1		0
77		0		1		1		1		0
78		0		1		1		1		0
79		0		1		1		1		0
80		0		1		1		1		0
81		0		1		1		1		0
82		0		1		1		1		0
83		0		1		1		1		0
84		0		1		1		1		0
85		0		1		1		1		0
86		0		1		1		1		0
87		0		1		1		1		0
88		0		1		1		1		0
89		0		1		1		1		0
90		0		1		1		1		0
91		0		1		1		1		0
92		0		1		1		1		0
93		0		1		1		1		0
94		0		1		1		1		0
95		0		1		1		1		0
96		0		1		1		1		0
97		0		1		1		1		0
98		0		1		1		1		0
99		0		1		1		1		0
100		0		1		1		1		0