Jean Nicolette S. Manas

CMSC11 T-2L

2010-51883

After class hours:

A	B	C	D	E	G
1	1	1	1	1	1
1	1	1	1	0	0
1	1	1	0	1	1
1	1	1	0	0	1
1	1	0	1	1	1
1	1	0	1	0	1
1	1	0	0	1	1
1	1	0	0	0	1
1	0	1	1	1	1
1	0	1	1	0	1
1	0	1	0	1	1
1	0	1	0	0	1
1	0	0	1	1	1
1	0	0	1	0	1
1	0	0	0	1	1
1	0	0	0	0	1
0	1	1	1	1	1
0	1	1	1	0	1
0	1	1	0	1	1
0	1	1	0	0	1
0	1	0	1	1	1
0	1	0	1	0	1
0	1	0	0	1	1
0	1	0	0	0	1
0	0	1	1	1	1
0	0	1	1	0	1
0	0	1	0	1	1
0	0	1	0	0	1
0	0	0	1	1	1
0	0	0	1	0	1
0	0	0	0	1	1
0	0	0	0	0	1

During class hours:

A	E	G
1	1	1
1	0	0
0	1	1
0	0	1

A – Student is at the gate
B – Student wears UPLB ID
C – Student passes Palm scanner
D – Student passes Retina scanner
E – Student is armed
G – Gate is locked

After class hours:

A^B^C^D^~E → ~G

Contrapositive:

~~G → ~(A^B^C^D^~E)

De Morgan's:

~Av~Bv~Cv~DvE

During class hours:

A^~E → ~G

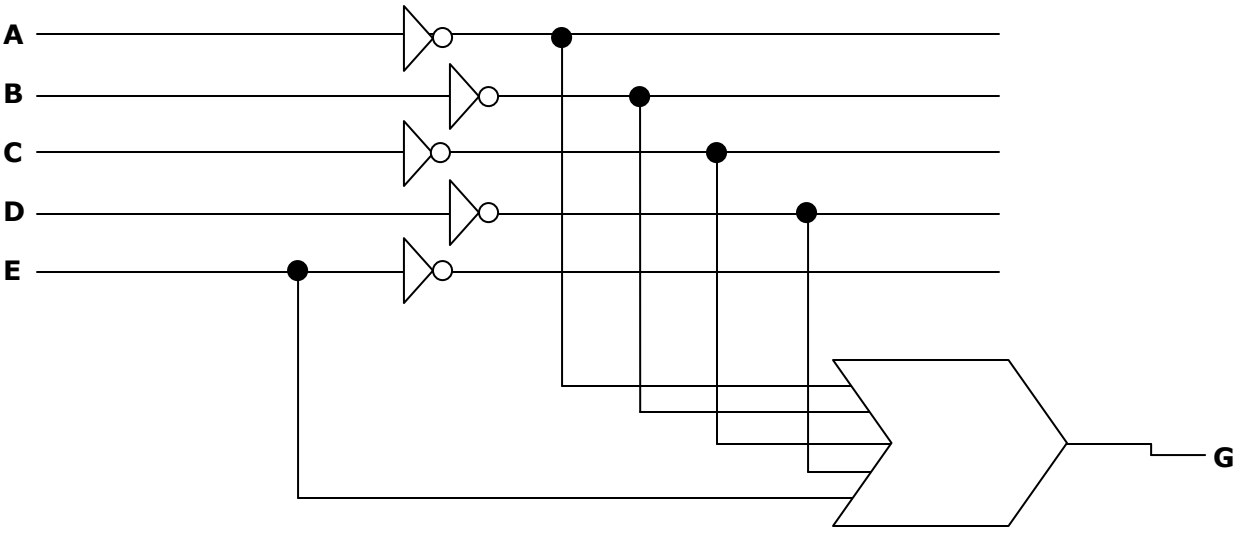
Contrapositive:

~~G → ~[A^~E]

De Morgan's:

~AvE

Logic Diagram: ~Av~Bv~Cv~DvE



Logic Diagram: ~AvE