DECODER KODU

```
module Dec4to16c (e,a,b,c,y);
input e,a,b,c;
output [15:0] y;
wire e0,a0,b0,c0;
not (e0,e);
not (a0,a);
not (b0,b);
not (c0,c);
and (y[0],e0,a0,b0,c0);
and (y[1],e0,a0,b0,c);
and (y[2],e0,a0,b,c0);
and (y[3],e0,a0,b,c);
and (y[4],e0,a,b0,c0);
and (y[5],e0,a,b0,c);
and (y[6],e0,a,b,c0);
and (y[7],e0,a,b,c);
and (y[8],e,a0,b0,c0);
and (y[9],e,a0,b0,c);
and (y[10],e,a0,b,c0);
and (y[11],e,a0,b,c);
and (y[12],e,a,b0,c0);
and (y[13],e,a,b0,c);
and (y[14],e,a,b,c0);
and (y[15],e,a,b,c);
endmodule
```

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DECODER DOĞRULUK TABLOSU

е	а	b	С	y0	у1	y2	у3	y4	у5	у6	у7	у8	у9	y10	y11	y12	y13	y14	y15
0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1