```
We hove:
 P(A, UA2 D... UA8-1 UAr)
 = P [ (A, (A2 ( ... ( Ax-1) ) Ax]
 = b (b' Ubs U ... Ubs.) b (b) b' Ubs U... Ubs.)
Substituting r=2,3,..., n in succession, we obtain:
   \frac{P(A_1 \cap A_2)}{P(A_1)} = P(A_2 \mid A_1)
  \frac{P(A_1 \cap A_2 \cap A_3)}{P(A_1 \cap A_2)} = P(A_3 \mid A_1 \cap A_2)
  P(AINA2 n... NAm) = P(Am | AIN A2 n.. NAm-1)
    P (A1 O A2 A. OA2-1)
Multiplying both sides:
  P(A1 () A2 (). () An) = P(A, 1 A1). () (A3 | A1 | A3)
        P (A1) -... P (An | A10A2... 0 Am)
.. P (M CA2 C... CM)
     = P(A) P(A21 A1). P(A3) A1 (1 A2).
P(An) A1 (1 A2 (1... (1 Am)).
```

$$3. \oplus y_3 \oplus y_5 \oplus y_7 = 0$$

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