

$D1 = B1$   
 $D2 = B1 \text{ XOR } B2$   
 $D3 = B2 \text{ XOR } B3$   
 $D4 = B3 \text{ XOR } B4$

| ورودی کد باینری |    |    |    | خروجی کد گری |    |    |    |
|-----------------|----|----|----|--------------|----|----|----|
| B1              | B2 | B3 | B4 | D1           | D2 | D3 | D4 |
| 0               | 0  | 0  | 0  | 0            | 0  | 0  | 0  |
| 0               | 0  | 0  | 1  | 0            | 0  | 0  | 1  |
| 0               | 0  | 1  | 0  | 0            | 0  | 1  | 1  |
| 0               | 0  | 1  | 1  | 0            | 0  | 1  | 0  |
| 0               | 1  | 0  | 0  | 0            | 1  | 1  | 0  |
| 0               | 1  | 0  | 1  | 0            | 1  | 1  | 1  |
| 0               | 1  | 1  | 0  | 0            | 1  | 0  | 1  |
| 0               | 1  | 1  | 1  | 0            | 1  | 0  | 0  |
| 1               | 0  | 0  | 0  | 1            | 1  | 0  | 0  |
| 1               | 0  | 0  | 1  | 1            | 1  | 0  | 1  |
| 1               | 0  | 1  | 0  | 1            | 1  | 1  | 1  |
| 1               | 0  | 1  | 1  | 1            | 1  | 1  | 0  |
| 1               | 1  | 0  | 0  | 1            | 0  | 1  | 0  |
| 1               | 1  | 0  | 1  | 1            | 0  | 1  | 1  |
| 1               | 1  | 1  | 0  | 1            | 0  | 0  | 1  |
| 1               | 1  | 1  | 1  | 1            | 0  | 0  | 0  |