

First column is legal alphas

Second column shows number of FF

Last n columns are r values for nodes 1 to n

ans =

| | | | | | | |
|----|---|----|----|---|----|---|
| 8 | 6 | -2 | -1 | 0 | -1 | 0 |
| 9 | 6 | -2 | -1 | 0 | -1 | 0 |
| 10 | 6 | -2 | -1 | 0 | -1 | 0 |
| 11 | 6 | -1 | -1 | 0 | -1 | 0 |
| 13 | 7 | -1 | 0 | 0 | -1 | 0 |
| 14 | 5 | -1 | 0 | 0 | 0 | 0 |
| 15 | 5 | -1 | 0 | 0 | 0 | 0 |
| 12 | 6 | -1 | -1 | 0 | -1 | 0 |
| 15 | 5 | -1 | 0 | 0 | 0 | 0 |
| 19 | 5 | 0 | 0 | 0 | 0 | 0 |
| 14 | 5 | -1 | 0 | 0 | 0 | 0 |
| 16 | 5 | -1 | 0 | 0 | 0 | 0 |
| 20 | 5 | 0 | 0 | 0 | 0 | 0 |
| 25 | 5 | 0 | 0 | 0 | 0 | 0 |

Min alpha solution: 8 with 6 flip flops

minREG =

| | | | | |
|---|---|---|---|---|
| 0 | 1 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 |

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