

SUM of PRODUCTS**Map**

| | $\overline{D}\overline{E}\overline{F}$ | $\overline{D}\overline{E}F$ | $\overline{D}E\overline{F}$ | $\overline{D}EF$ | $D\overline{E}\overline{F}$ | $D\overline{E}F$ | $DE\overline{F}$ | DEF |
|--|--|-----------------------------|-----------------------------|------------------|-----------------------------|------------------|------------------|-------|
| $\overline{A}\overline{B}\overline{C}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $\overline{A}\overline{B}C$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $\overline{A}B\overline{C}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $\overline{A}BC$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| $A\overline{B}\overline{C}$ | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| $A\overline{B}C$ | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| $AB\overline{C}$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ABC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

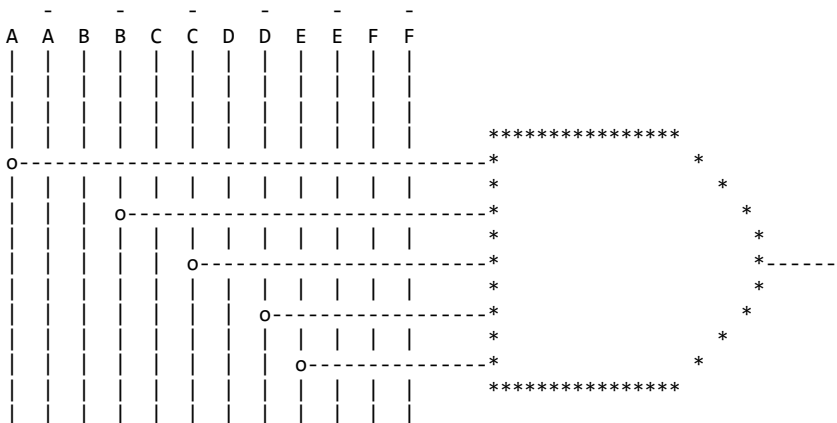
Map Layout

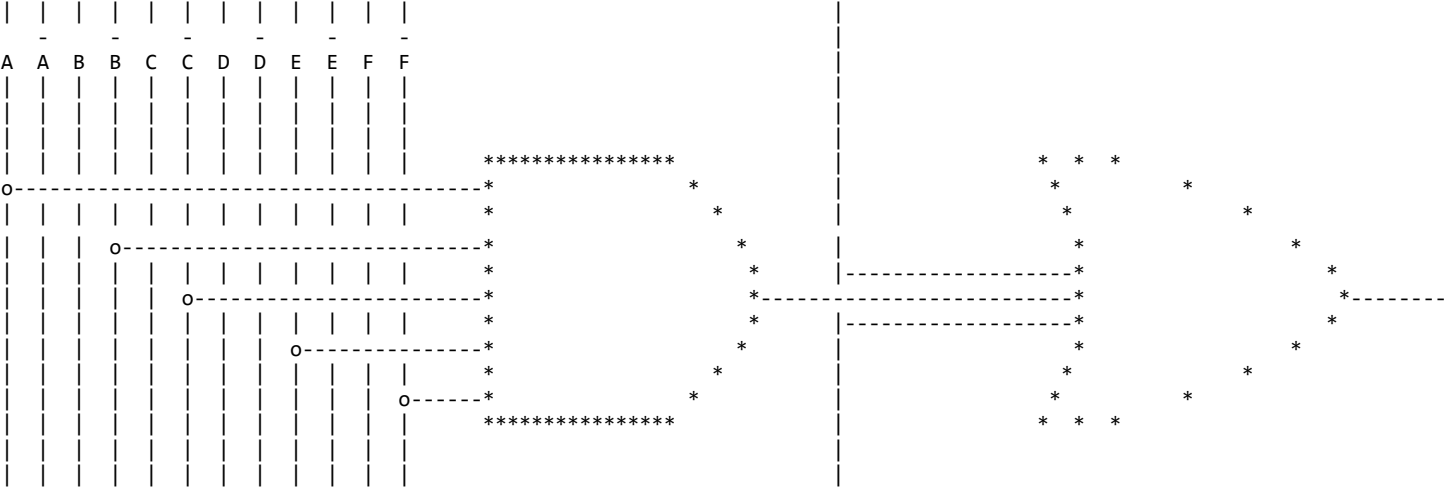
| | $\overline{D}\overline{E}\overline{F}$ | $\overline{D}\overline{E}F$ | $\overline{D}E\overline{F}$ | $\overline{D}EF$ | $D\overline{E}\overline{F}$ | $D\overline{E}F$ | $DE\overline{F}$ | DEF |
|--|--|-----------------------------|-----------------------------|------------------|-----------------------------|------------------|------------------|-------|
| $\overline{A}\overline{B}\overline{C}$ | 0 | 1 | 3 | 2 | 4 | 5 | 7 | 6 |
| $\overline{A}\overline{B}C$ | 8 | 9 | 11 | 10 | 12 | 13 | 15 | 14 |
| $\overline{A}B\overline{C}$ | 24 | 25 | 27 | 26 | 28 | 29 | 31 | 30 |
| $\overline{A}BC$ | 16 | 17 | 19 | 18 | 20 | 21 | 23 | 22 |
| $A\overline{B}\overline{C}$ | 32 | 33 | 35 | 34 | 36 | 37 | 39 | 38 |
| $A\overline{B}C$ | 40 | 41 | 43 | 42 | 44 | 45 | 47 | 46 |
| $AB\overline{C}$ | 56 | 57 | 59 | 58 | 60 | 61 | 63 | 62 |
| ABC | 48 | 49 | 51 | 50 | 52 | 53 | 55 | 54 |

Groups

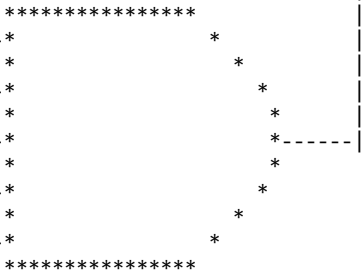
| | |
|---------|--|
| (34,35) | $A\overline{B}\overline{C}\overline{D}E$ |
| (34,38) | $A\overline{B}\overline{C}E\overline{F}$ |
| (34,42) | $A\overline{B}\overline{D}E\overline{F}$ |

$$y = A\overline{B}\overline{C}\overline{D}E + A\overline{B}\overline{C}E\overline{F} + A\overline{B}\overline{D}E\overline{F}$$





| | A | B | C | D | E | F | Y |
|----|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 4 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| 6 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| 7 | 0 | 0 | 0 | 1 | 1 | 1 | 0 |
| 8 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| 10 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| 11 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |
| 12 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 13 | 0 | 0 | 1 | 1 | 0 | 1 | 0 |
| 14 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| 15 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 16 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 17 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 18 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| 19 | 0 | 1 | 0 | 0 | 1 | 1 | 0 |
| 20 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 21 | 0 | 1 | 0 | 1 | 0 | 1 | 0 |
| 22 | 0 | 1 | 0 | 1 | 1 | 0 | 0 |
| 23 | 0 | 1 | 0 | 1 | 1 | 1 | 0 |
| 24 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| 25 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |
| 26 | 0 | 1 | 1 | 0 | 1 | 0 | 0 |



| | | | | | | | |
|----|---|---|---|---|---|---|---|
| 27 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| 28 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| 29 | 0 | 1 | 1 | 1 | 0 | 1 | 0 |
| 30 | 0 | 1 | 1 | 1 | 1 | 0 | 0 |
| 31 | 0 | 1 | 1 | 1 | 1 | 1 | 0 |
| 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 33 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 34 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| 35 | 1 | 0 | 0 | 0 | 1 | 1 | 1 |
| 36 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 37 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| 38 | 1 | 0 | 0 | 1 | 1 | 0 | 1 |
| 39 | 1 | 0 | 0 | 1 | 1 | 1 | 0 |
| 40 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 41 | 1 | 0 | 1 | 0 | 0 | 1 | 0 |
| 42 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 43 | 1 | 0 | 1 | 0 | 1 | 1 | 0 |
| 44 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| 45 | 1 | 0 | 1 | 1 | 0 | 1 | 0 |
| 46 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| 47 | 1 | 0 | 1 | 1 | 1 | 1 | 0 |
| 48 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 49 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| 50 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| 51 | 1 | 1 | 0 | 0 | 1 | 1 | 0 |
| 52 | 1 | 1 | 0 | 1 | 0 | 0 | 0 |
| 53 | 1 | 1 | 0 | 1 | 0 | 1 | 0 |
| 54 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| 55 | 1 | 1 | 0 | 1 | 1 | 1 | 0 |
| 56 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 57 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |
| 58 | 1 | 1 | 1 | 0 | 1 | 0 | 0 |
| 59 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| 60 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 61 | 1 | 1 | 1 | 1 | 0 | 1 | 0 |
| 62 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 63 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |