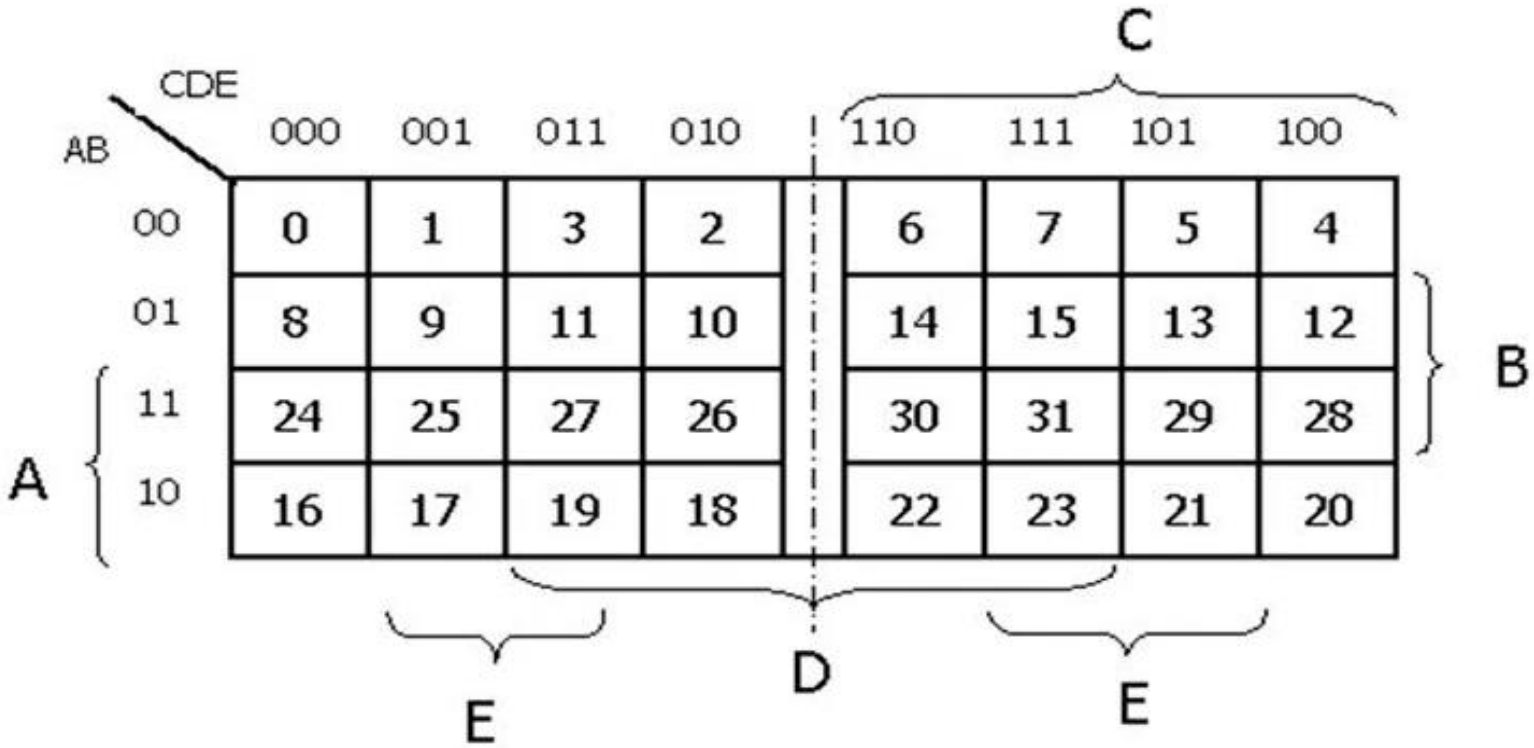
5 variable K-map



- 5 variables -> 32 minterms, hence 32 squares required

5 variable K-map

- Adjacent squares. E.g. square 15 is adjacent to 7,14,13,31 and its mirror square 11.

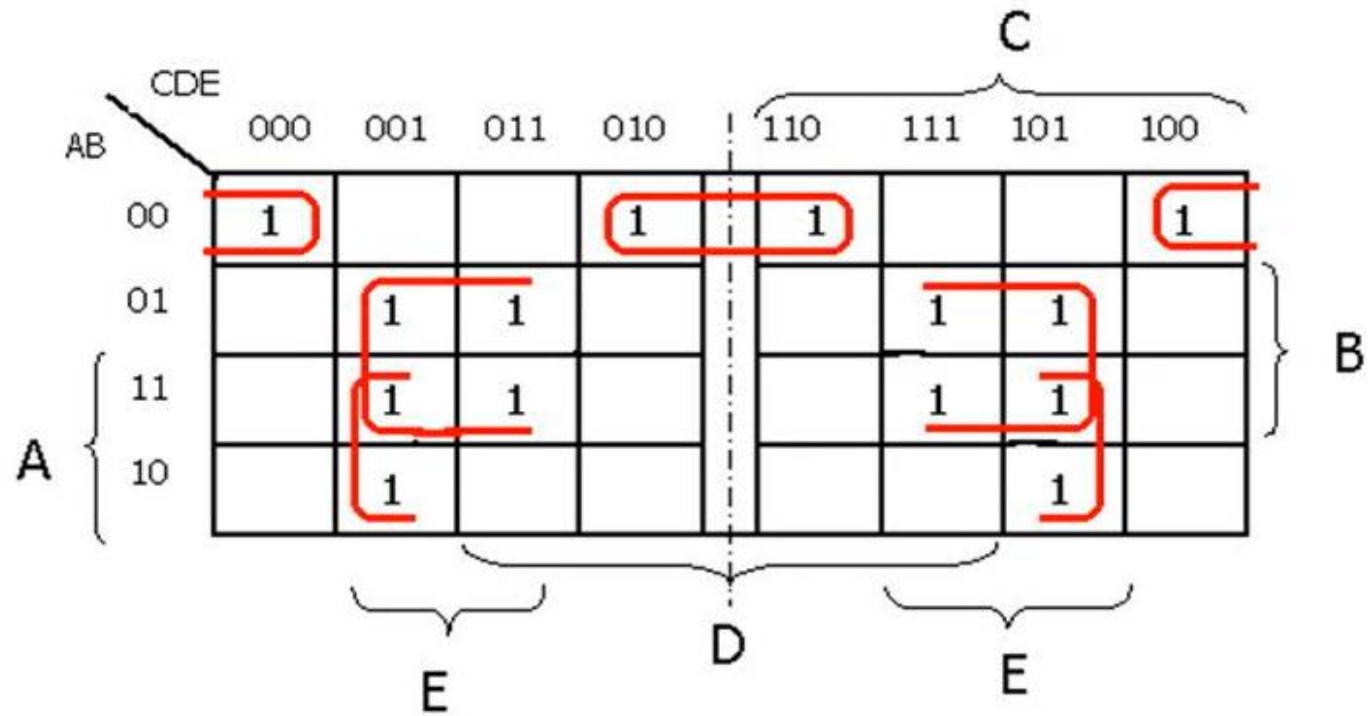
- The centre line must be considered as the centre of a book, each half of the K-map being a page
- The centre line is like a mirror with each square being adjacent not only to its 4 immediate neighbouring squares, but also to its mirror image.

5 variable K-map

Example: Simplify the Boolean function

$F_{(ABCDE)} = \Sigma(0,2,4,6,11,13,15,17,21,25,27,29,31)$

Soln: $F_{(ABCDE)} = BE+AD'E+A'B'E'$



6 variable K-map

ABC \ DEF	000	001	011	010	110	111	101	100
000	0	1	3	2	6	7	5	4
001	8	9	11	10	14	15	13	12
011	24	25	27	26	30	31	29	28
010	16	17	19	18	22	23	21	20
110	48	49	51	50	54	55	53	52
111	56	57	59	58	62	63	61	60
101	40	41	43	42	46	47	45	44
100	32	33	35	34	38	39	37	36

- 6 variables -> 64 minterms, hence 64 squares required

SEE EXAMPLES FROM BOOK