

Input: input_m.txt, input_d.txt

Output: output.txt



The following is the

input/output

format

example:

Variable

number Range:

2~4

Midterm value

[index](#)

Range: 0~15

(The existed index
stands for value 1)

Variable number

Range: 2~4

Don't care [index](#)

Range: 0~15

(The existed index
stands for value x)

The file names are
fixed. DO NOT
change them.

Your program is
expected to create
the file including



the content.

ii. Kmap order (here not the order from truth table to K map)

1. 4 variable

| AB \ CD | 00 | 01 | 11 | 10 |
|---------|----|----|----|----|
| 00 | 0 | 1 | 2 | 3 |
| 01 | 4 | 5 | 6 | 7 |
| 11 | 8 | 9 | 10 | 11 |
| 10 | 12 | 13 | 14 | 15 |

| AB \ CD | 00 | 01 | 11 | 10 |
|---------|----|----|----|----|
| 00 | 1 | 1 | 0 | 0 |
| 01 | x | 1 | x | 0 |
| 11 | 0 | 0 | x | 1 |
| 10 | 0 | 0 | x | 1 |

Fig1. The

index of minterm Fig2. Example value of minterm

2. 3 variable

| AB \ C | 00 | 01 | 11 | 10 |
|--------|----|----|----|----|
| 0 | 0 | 1 | 2 | 3 |
| 1 | 4 | 5 | 6 | 7 |

Fig3. The index of minterm

3. 2 variable

| A \ C | 0 | 1 |
|-------|---|---|
| 0 | 0 | 1 |
| 1 | 2 | 3 |

Fig4. The index of minterm

4. Hint

You can reference the flow chart below to design your program.

