

07:00 Friday, May 20





07:00 AM 20/05/202



SIGN IN



Introduction

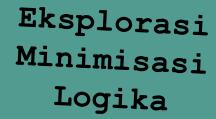








Fadiah M. A. 18320009 Tanya N. W. 18320017 Eunike K. 18320019



Tugas Besar PMC 2022











INTRODUCTION

















Minimisasi logika → proses penyederhanaan fungsi boolean

- 3 cara minimisasi logika:
- Teorema Aljabar Boolean
- Metode Karnaugh Map (K-Map)
- Metode Tabular

















Introduction









Input:

- Jumlah variabel (1-12)
- Jumlah minterms
- Minterm (0-2^(jumlah variabel-1)

Output:

- Tabel prime implicants
- Simplified Boolean expression

Referensi:

http://freesourcecode.net/cprojects/1 02643/sourcecode/McQuicksy.c#.YlGuFch Bw2w







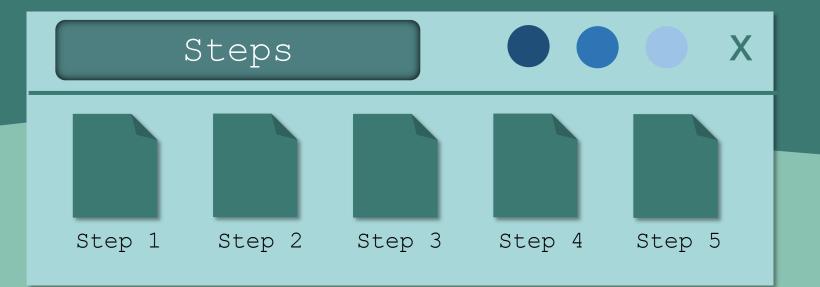


































Mengubah minterms dari bentuk desimal menjadi bentuk binernya







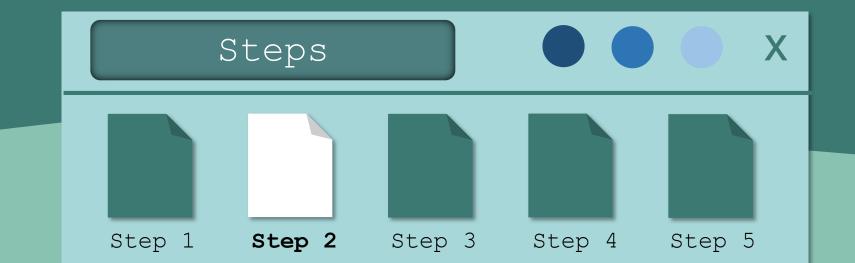




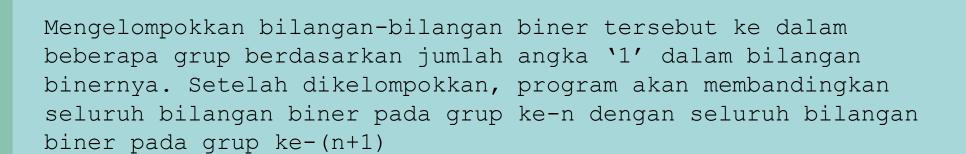




















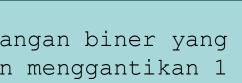








Step 3



Mencari matched pair yang merupakan dua bilangan biner yang hanya memiliki 1 perbedaan pada nilainya dan menggantikan 1 nilai berbeda tersebut dengan tanda underscore ''







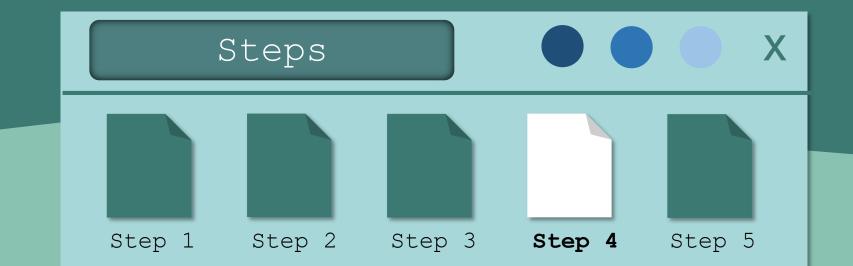




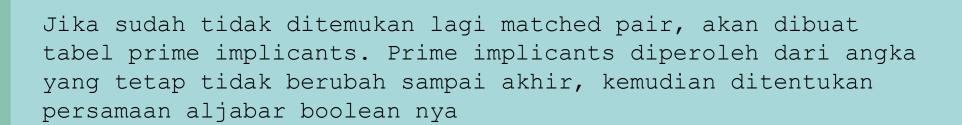




















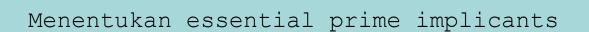






















Introduction

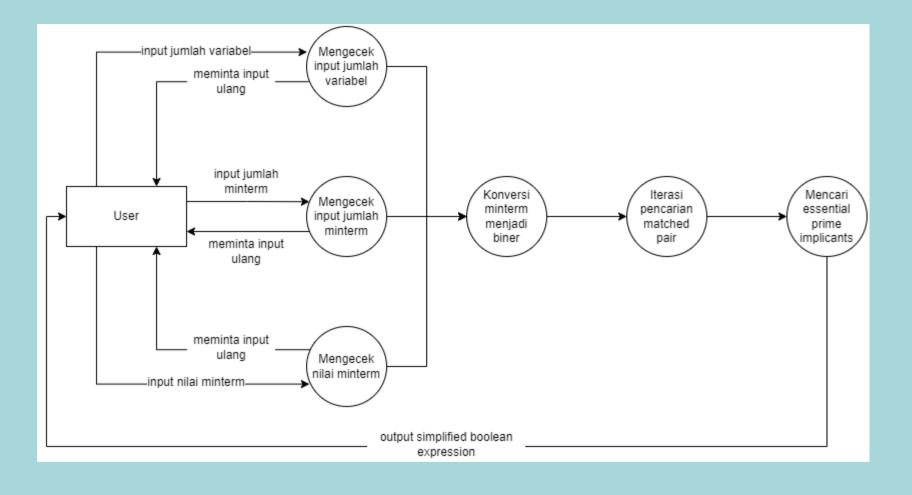






DFD













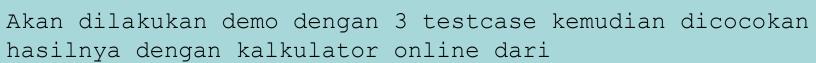








Testcase



https://geeekyboy.github.io/Quine-McCluskey-Solver/#/

Jumlah Variabel	Jumlah Minterms	Minterm	Hasil kalkulator
4	8	0, 1, 3, 7, 8, 9, 11, 15	bc + CD
8	6	2, 24, 60, 124, 200, 254	abcdefGh + abcDEfgh + ABcdEfgh + ABCDEFGh + aCDEFgh
12	4	1, 4000, 4050, 4095	abcdefghijkL + ABCDEfGhijkl + ABCDEFgHijKl + ABCDEFGHIJKL



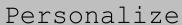




KESIMPULAN









Settings



Shut down









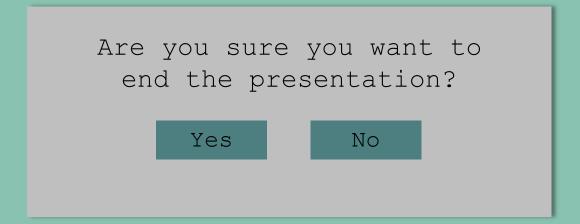




















THANK YOU FOR LISTENING!



Shutting down....