

07:00 Friday, May 20







SIGN IN



#### Introduction

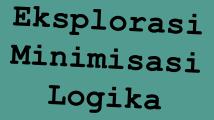








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Tugas Besar PMC 2022











## INTRODUCTION

















Minimisasi logika  $\rightarrow$  proses penyederhanaan fungsi boolean

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

























#### 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







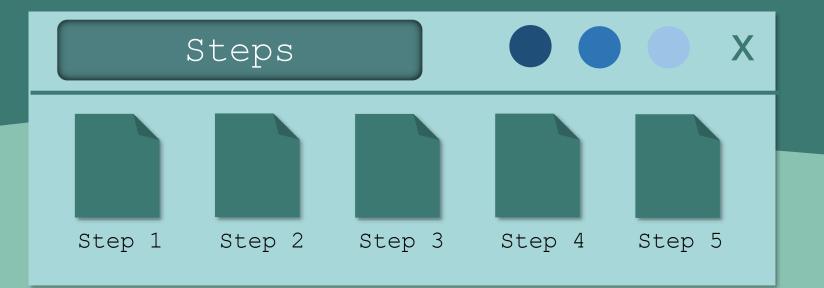
































Mengubah minterms dari bentuk desimal menjadi bentuk binernya



















Step 2



Mengelompokkan bilangan-bilangan biner tersebut ke dalam beberapa grup berdasarkan jumlah angka '1' dalam bilangan binernya. Setelah dikelompokkan, program akan membandingkan seluruh bilangan biner pada grup ke-n dengan seluruh bilangan biner pada grup ke-(n+1)











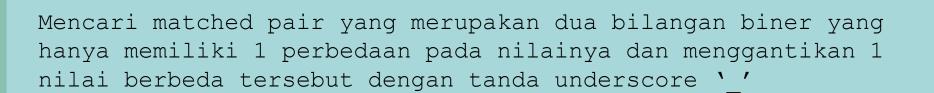
















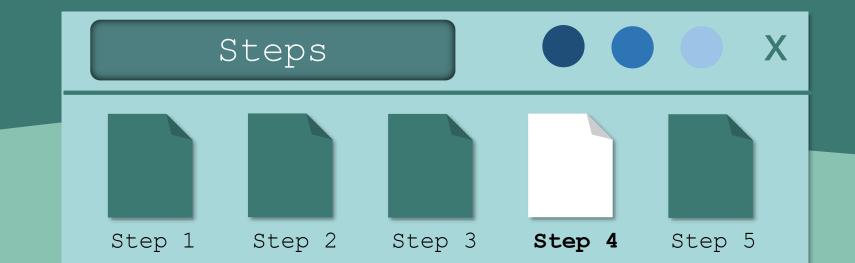




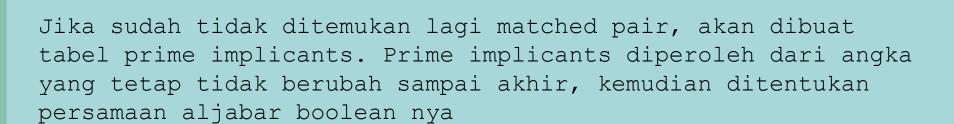














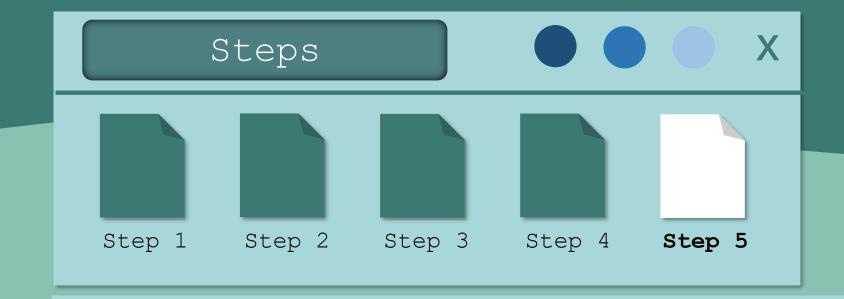




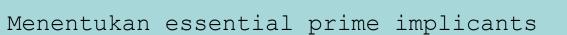




















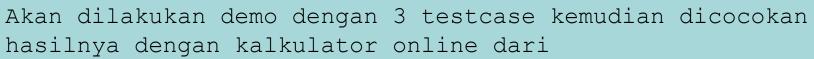








## Testcase



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



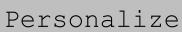




# **KESIMPULAN**









Settings



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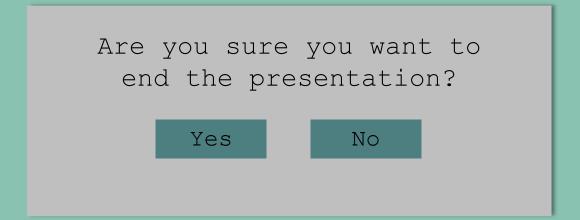




















# THANK YOU FOR LISTENING!



Shutting down .....