

Quiz07 Multivibrator

總分 100/100



NCTU EELAB Fall

區段分數 0/0

Class *



DEE222



DEE320

Student ID *

0710175

Name *

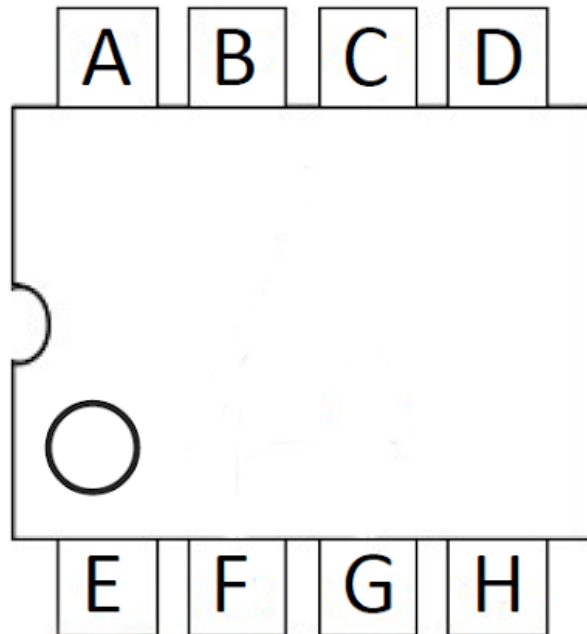
陳愉方

Q1. Look at the timer IC 555 below, please match its pins with correct numbers.

區段分數 10/10



Timer IC 555



✓ Match pins with correct numbers *

10/10

- ☐ (A,B,C,D,E,F,G,H) = (1,2,3,4,5,6,7,8)
- ☐ (A,B,C,D,E,F,G,H) = (8,7,6,5,4,3,2,1)
- ☒ (A,B,C,D,E,F,G,H) = (8,7,6,5,1,2,3,4)
- ☐ (A,B,C,D,E,F,G,H) = (5,6,7,8,1,2,3,4)

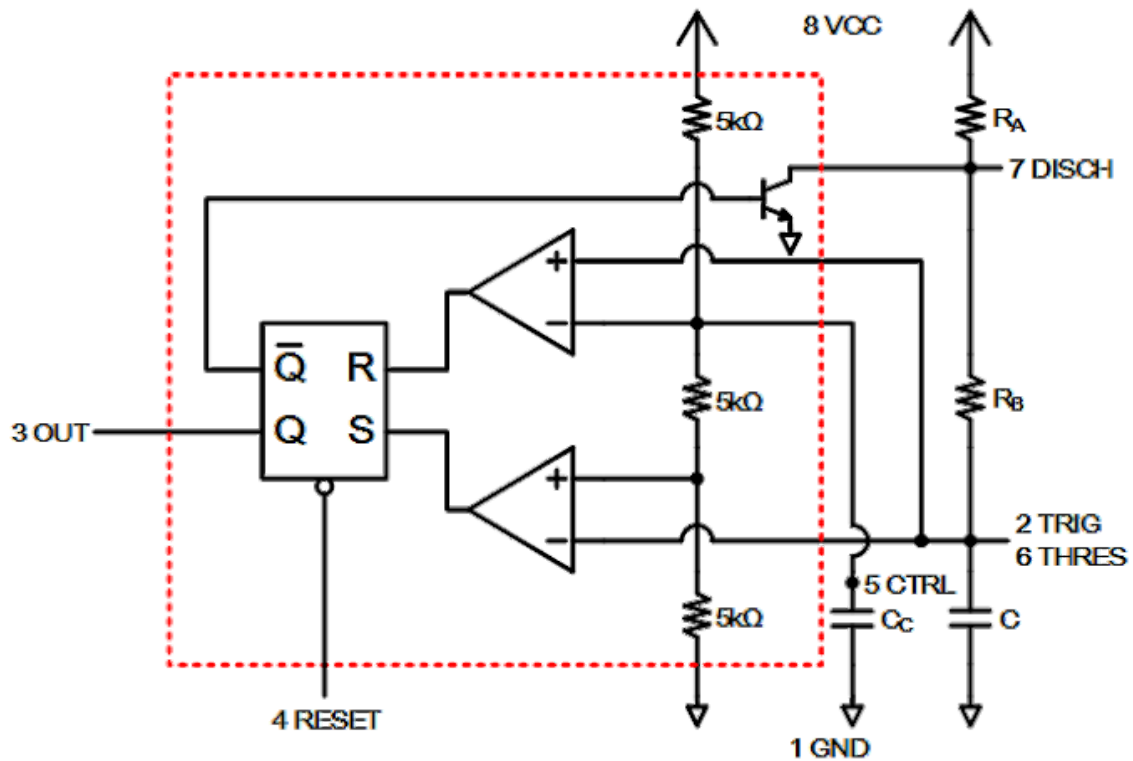


Q2. The circuits below are astable configuration of timer IC 555, please choose the expected output waveform at pin3 under following conditions: (a) pin4=RESET=VCC (b) VCC, RA, RB and C values are unknown, i.e., you don't have to calculate the precise frequency and amplitude.

區段分數 30/30

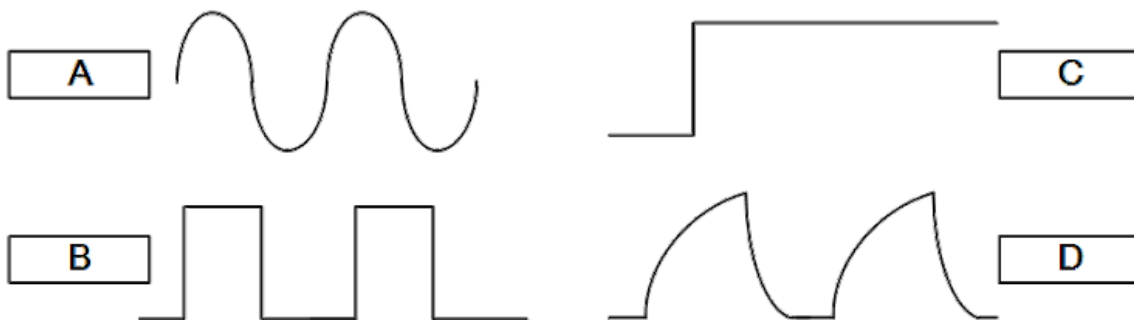


Astable configuration of timer IC 555



✓ pin3 waveform = ? *

30/30



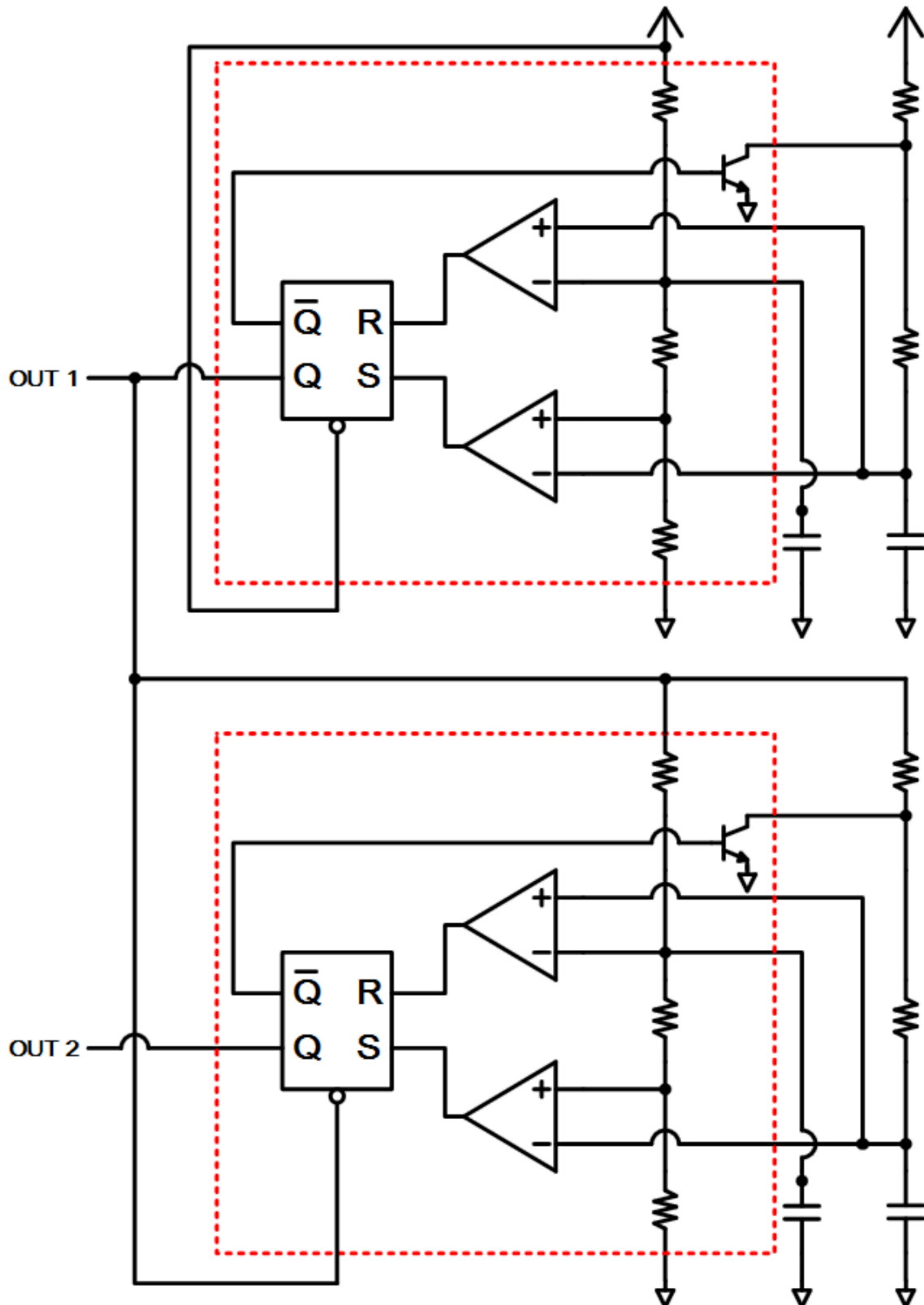
- ☐ A
- ☒ B
- ☐ C
- ☐ D



Q3. Following circuits are double astable configuration of timer IC 555, assume that the duty cycle of both timer 1 and timer 2 is ideal 50% , and the timer 1's period length is 8 times of timer 2's, please find the most possible OUT 1 and OUT 2 waveforms.

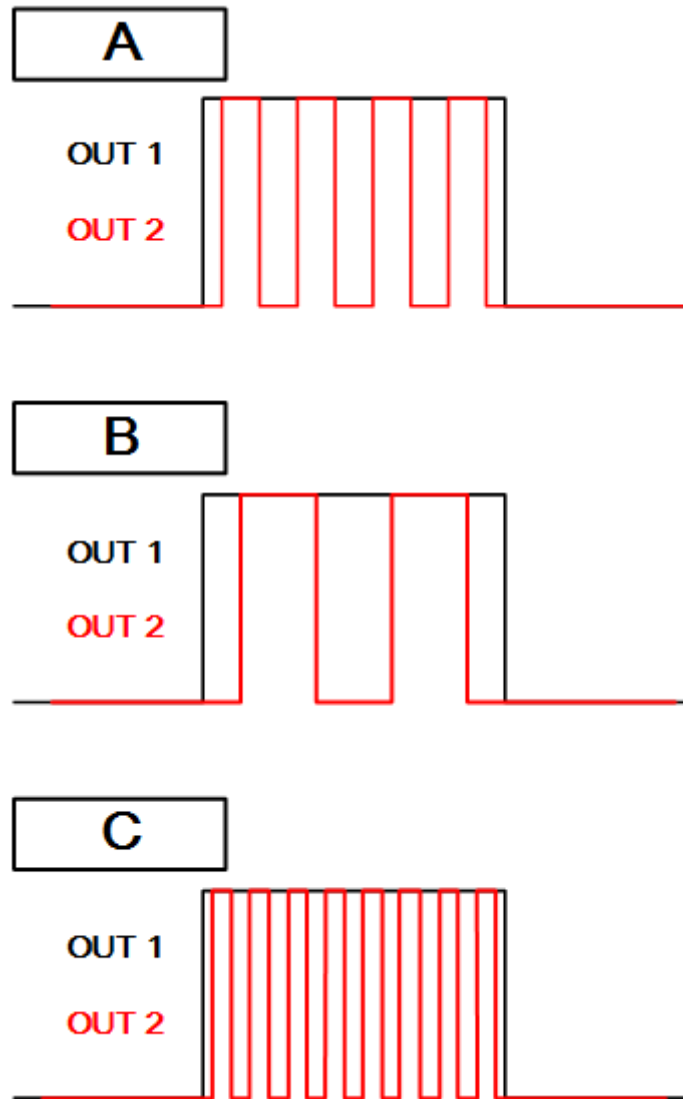
區段分數 30/30

Double astable configuration of timer IC 555



✓ OUT 1 and OUT 2 waveforms = ? *

30/30



☒ A

☐ B

☐ C

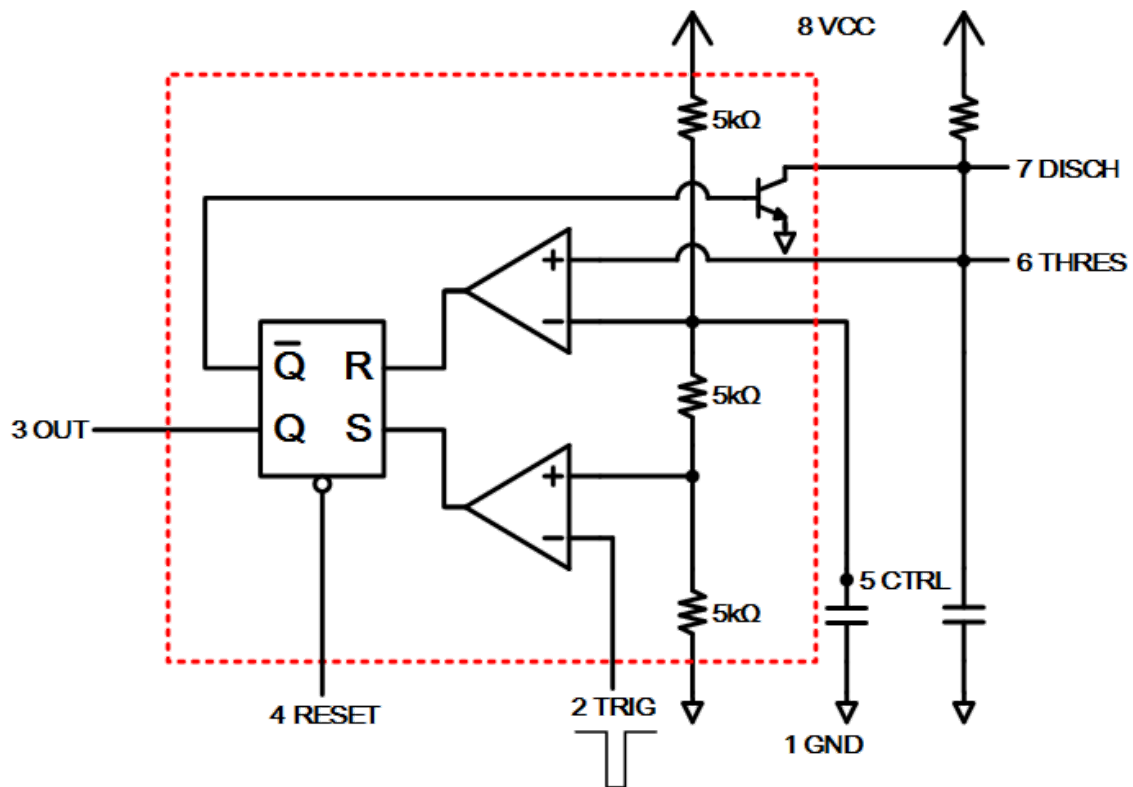


Q4. Following circuits are monostable configuration of timer IC 555, given a falling pulse signal to pin2, please find the most possible waveform that you expected to see at pin3.



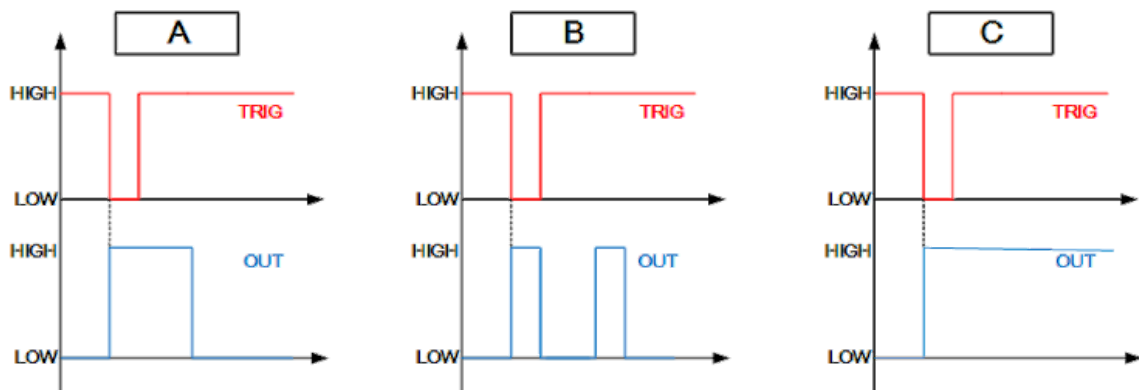
區段分數 30/30

Monostable configuration of timer IC 555



✓ TRIG and OUT waveforms = ? *

30/30

☒ A☐ B☐ C

Google 表單

