

LEE PEI YUAN

A24CS0262

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Pseudocode

1. Start
2. Set $n=0$, $sum=0$
3. Read n
4. If $n < 0$,
 - 4.1 Print "Valid"
5. Else
 - 5.1 Print "Invalid"
 - 5.2 Go step 3
6. End if
7. While ($n > 0$)
 - 7.1 $sum = sum + (n \% 10)$
 - 7.2 $n = n / 10$
8. End while
9. Display sum
10. If $sum \% 2 = 0$
 - 10.1 Print "This is even number."
11. Else
 - 11.1 Print "This is odd number."
12. End if
13. If $sum \% 4 = 0$ and $sum \% 5 = 0$
 - 13.1 Print "This is multiple of 4 and multiple of 5."
14. else if $sum \% 4 = 0$
 - 14.1 Print "This is multiple of 4."
15. Else if $sum \% 5 = 0$
 - 15.1 Print "This is multiple of 5."

16. End if

17. End

Flowchart

