Your Exercise

What is the big O and Master Theorem Case for the following time function?

i. $T(n) = 2T(n/2) + 1$

ii. $T(n) = 4T(n/2) + 1$

iii. $T(n) = 2T(n/2) + n$

iv. $T(n) = 2T(n/2) + n \log n$

v. $T(n) = 4T(n/2) + n^2$

vi. $T(n) = 4T(n/2) + n^2 \log^2 n$

vii. $T(n) = 2T(n/2) + n / \log^2 n$

viii. $T(n) = 4T(n/2) + n$

ix. $T(n) = 8T(n/2) + n^2$

x. $T(n) = 4T(n/2) + n^3 \log^2 n$

xi. $T(n) = 2T(n/2) + n^2 / \log n$

xii. $T(n) = T(n/2) + 1$

xiii. $T(n) = 16T(n/2) + n^2$

xiv. $T(n) = T(n/2) + n$

xv. $T(n) = 2T(n/2) + n^2$

xvi. $T(n) = 2T(n/2) + n^2 \log n$

xvii. $T(n) = 2T(n/2) + n / \log n$