T(n) = 3T(n/2) + n

**Ans: T(n) = Θ(nlog23) -- (case 1)**

T(n) = 64T(n/8) − n^2(log n)

**Ans: Since the combination time i.e. f(n) = - n2 log n is not positive, we cannot solve this recurrence using masters theorem.**

T(n) = 2nT (n/2) + n^n

**Ans: We cannot solve this recurrence using masters theorem since "a" is not constant**

T(n) = 3T (n/3) + n/2

**Ans: T(n) = Θ(n log n) -- (case 2)**

T(n) = 7T (n/3) + n^2

**Ans: T(n) = Θ(n^2) -- (case 3)**