

$$1. T(n) = T(n-2) + 2^n, \quad T(0)=0$$

$$2. T(n) = (T(n-2))^2, \quad T(0)=2$$

$$3. T(n) = T(\sqrt{n}) + \Theta(\log_2 n), \quad T(2)=1$$

$$4. T(n) = T(n/2) + T(\sqrt{n}) + \Theta(n)$$

$$5. \mathbf{T(n) = 2T(n/3) + \Theta(n \lg_2 n)}$$

$$6. \mathbf{T(n) = T(n/5) + \Theta((\lg_2 n)^2)}$$

$$7. \mathbf{T(n) = 3T(n/5) + \Theta((\lg_2 n)^2)}$$

$$8. \mathbf{T(n) = T(n/3) + T(2n/6) + \Theta(n), \quad T(1)=1}$$