

Motwani Randomized Algorithms Solution Manual

1. Let $T(n)$ be the running time of the algorithm. Then,

$$T(n) \leq T(n-1) + c$$
 for some constant c . This implies that

$$T(n) \leq T(n-1) + c \leq T(n-2) + 2c \leq \dots \leq T(0) + cn$$
 Since $T(0)$ is a constant, we have

$$T(n) \leq cn$$
 for some constant c .

2. Let $T(n)$ be the running time of the algorithm. Then,

$$T(n) \leq T(n-1) + c \log n$$
 for some constant c . This implies that

$$T(n) \leq T(n-1) + c \log n \leq T(n-2) + 2c \log n \leq \dots \leq T(0) + cn \log n$$
 Since $T(0)$ is a constant, we have

$$T(n) \leq cn \log n$$
 for some constant c .

3. Let $T(n)$ be the running time of the algorithm. Then,

$$T(n) \leq T(n-1) + c \sqrt{n}$$
 for some constant c . This implies that

$$T(n) \leq T(n-1) + c \sqrt{n} \leq T(n-2) + 2c \sqrt{n} \leq \dots \leq T(0) + cn$$
 Since $T(0)$ is a constant, we have

$$T(n) \leq cn$$
 for some constant c .

4. Let $T(n)$ be the running time of the algorithm. Then,

$$T(n) \leq T(n-1) + c \log^2 n$$
 for some constant c . This implies that

$$T(n) \leq T(n-1) + c \log^2 n \leq T(n-2) + 2c \log^2 n \leq \dots \leq T(0) + cn \log n$$
 Since $T(0)$ is a constant, we have

$$T(n) \leq cn \log n$$
 for some constant c .

5. Let $T(n)$ be the running time of the algorithm. Then,

$$T(n) \leq T(n-1) + c \log^3 n$$
 for some constant c . This implies that

$$T(n) \leq T(n-1) + c \log^3 n \leq T(n-2) + 2c \log^3 n \leq \dots \leq T(0) + cn \log^2 n$$
 Since $T(0)$ is a constant, we have

$$T(n) \leq cn \log^2 n$$
 for some constant c .

6. Let $T(n)$ be the running time of the algorithm. Then,

$$T(n) \leq T(n-1) + c \log^4 n$$
 for some constant c . This implies that

$$T(n) \leq T(n-1) + c \log^4 n \leq T(n-2) + 2c \log^4 n \leq \dots \leq T(0) + cn \log^3 n$$
 Since $T(0)$ is a constant, we have

$$T(n) \leq cn \log^3 n$$
 for some constant c .

7. Let $T(n)$ be the running time of the algorithm. Then,

$$T(n) \leq T(n-1) + c \log^5 n$$
 for some constant c . This implies that

$$T(n) \leq T(n-1) + c \log^5 n \leq T(n-2) + 2c \log^5 n \leq \dots \leq T(0) + cn \log^4 n$$
 Since $T(0)$ is a constant, we have

$$T(n) \leq cn \log^4 n$$
 for some constant c .

8. Let $T(n)$ be the running time of the algorithm. Then,

$$T(n) \leq T(n-1) + c \log^6 n$$
 for some constant c . This implies that

$$T(n) \leq T(n-1) + c \log^6 n \leq T(n-2) + 2c \log^6 n \leq \dots \leq T(0) + cn \log^5 n$$
 Since $T(0)$ is a constant, we have

$$T(n) \leq cn \log^5 n$$
 for some constant c .

9. Let $T(n)$ be the running time of the algorithm. Then,

$$T(n) \leq T(n-1) + c \log^7 n$$
 for some constant c . This implies that

$$T(n) \leq T(n-1) + c \log^7 n \leq T(n-2) + 2c \log^7 n \leq \dots \leq T(0) + cn \log^6 n$$
 Since $T(0)$ is a constant, we have

$$T(n) \leq cn \log^6 n$$
 for some constant c .

10. Let $T(n)$ be the running time of the algorithm. Then,

$$T(n) \leq T(n-1) + c \log^8 n$$
 for some constant c . This implies that

$$T(n) \leq T(n-1) + c \log^8 n \leq T(n-2) + 2c \log^8 n \leq \dots \leq T(0) + cn \log^7 n$$
 Since $T(0)$ is a constant, we have

$$T(n) \leq cn \log^7 n$$
 for some constant c .

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