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Nama: StevenEmmanuelG
Kelas: TI-24-PA2
Npm: 242310002
#include <iostream>
using namespace std;
struct Node {
  int nilai;
  Node* kiri;
  Node* kanan;
  Node(int x) {
    nilai = x;
    kiri = NULL;
    kanan = NULL;
 }
};
class Pohon {
public:
  Node* akar;
  Pohon() {
    akar = NULL;
  }
  void tambah(int x) {
    akar = sisip(akar, x);
```

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Node* sisip(Node* a, int x) {
  if (a == NULL) return new Node(x);
  if (x < a->nilai)
    a->kiri = sisip(a->kiri, x);
  else
    a->kanan = sisip(a->kanan, x);
  return a;
}
void preorder(Node* a) {
  if (a == NULL) return;
  cout << a->nilai << " ";
  preorder(a->kiri);
  preorder(a->kanan);
}
void inorder(Node* a) {
  if (a == NULL) return;
  inorder(a->kiri);
  cout << a->nilai << " ";
  inorder(a->kanan);
}
void postorder(Node* a) {
  if (a == NULL) return;
  postorder(a->kiri);
  postorder(a->kanan);
```

}

```
cout << a->nilai << " ";
 }
};
int main() {
  Pohon p;
  int data[] = {12, 16, 20, 24, 32};
  for (int i = 0; i < 5; i++) {
    p.tambah(data[i]);
  }
  cout << "Pre-order: ";</pre>
  p.preorder(p.akar);
  cout << endl;
  cout << "In-order: ";</pre>
  p.inorder(p.akar);
  cout << endl;
  cout << "Post-order: ";</pre>
  p.postorder(p.akar);
  cout << endl;
  return 0;
}
```

