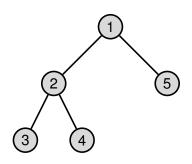
```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris_inorder_traversal(Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

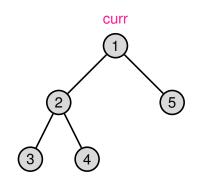
return 0:



```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris_inorder_traversal(Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
```

morris inorder traversal(root);

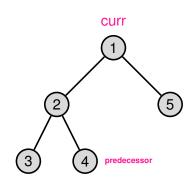
return 0:





```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find_inorder_predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

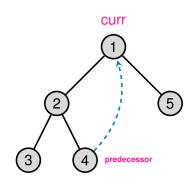
return 0:



```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
```

morris inorder traversal(root);

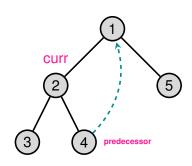
return 0:





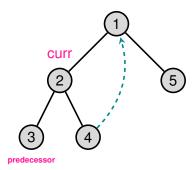
```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

return 0:



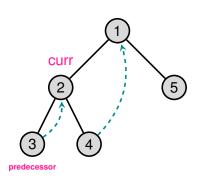
```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
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void morris inorder traversal (Node* root)
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   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find_inorder_predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

return 0:



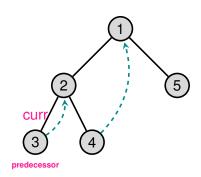
```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       predecessor->right=NULL;
       cout << curr->data << ".";
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 Node * root = new_node(1);
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 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

return 0:



```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
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   predecessor=predecessor->right;
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     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
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 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

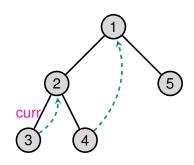
return 0:



```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
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   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout<<curr->data<<".";
     curr=curr->right;
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      if (predecessor->right==NULL)
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       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
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 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
```

morris inorder traversal(root);

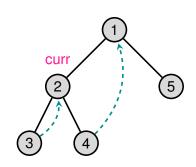
return 0:



```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
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void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
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   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
```

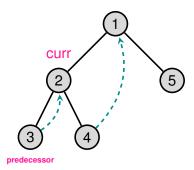
morris inorder traversal(root);

return 0:



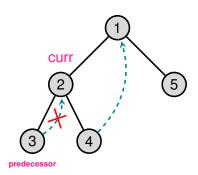
```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
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     curr=curr->right;
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       predecessor->right=NULL;
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 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

return 0:



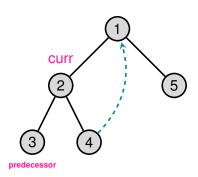
```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
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   /* if curr doesn't have left child */
   if (curr->left==NULL)
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     curr=curr->right;
       /* finding inorder predecessor */
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       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL:
       cout << curr->data << ".";
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 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
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 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

return 0:



```
Node* find_inorder_predecessor(Node* curr)
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   predecessor=predecessor->right;
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   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
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   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << "..";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

return 0:



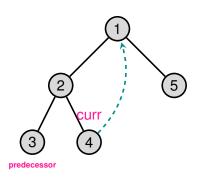
Output: 3 2



```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
        curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
```

morris inorder traversal(root);

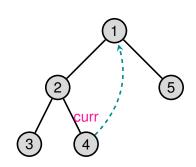
return 0:



Output: 3 2

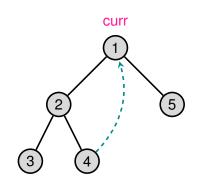
```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout<<curr->data<<".";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

return 0:



Output: 3 2 4

```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
```

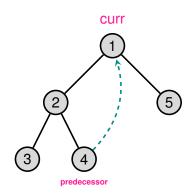


Output: 3 2 4

morris inorder traversal(root);

```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
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/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
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 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find_inorder_predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
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 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

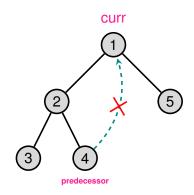
return 0:



Output: 3 2 4

```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
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   if (curr->left==NULL)
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       predecessor->right=NULL:
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 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

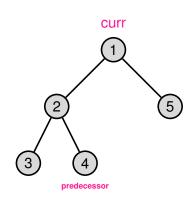
return 0:



Output: 3 2 4

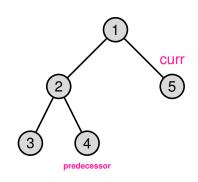
```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << "..";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```

return 0:



Output: 3 2 4 1

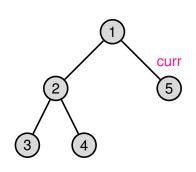
```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
        curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
```



Output: 3 2 4 1

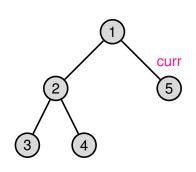
morris inorder traversal(root);

```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout<<curr->data<<".";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```



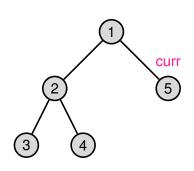
Output: 3 2 4 1 5

```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```



Output: 3 2 4 1 5

```
Node* find_inorder_predecessor(Node* curr)
 Node* predecessor=curr->left;
 while (predecessor->right != NULL && predecessor->right != curr)
   predecessor=predecessor->right;
   return predecessor;
/* Morris Inorder traversal */
void morris inorder traversal (Node* root)
 Node *curr:
 curr = root;
 while (curr!=NULL)
   /* if curr doesn't have left child */
   if (curr->left==NULL)
     cout << curr -> data << "...";
     curr=curr->right;
       /* finding inorder predecessor */
   Node* predecessor=find inorder predecessor(curr);
      /* Make curr as the right child of its inorder predecessor */
      if (predecessor->right==NULL)
       predecessor->right=curr;
       curr=curr->left;
       predecessor->right=NULL;
       cout << curr->data << ".";
       curr=curr->right;
int main()
 Node * root = new_node(1);
 root->left = new_node(2);
 root->right = new node(5);
 root->left->left = new_node(3);
 root->left->right = new node(4);
 /* this input tree is shown in above figure */
 cout << "\nMorris_Inorder_Traversal_of_the_graph:_";
 morris inorder traversal(root);
```



Output: 3 2 4 1 5