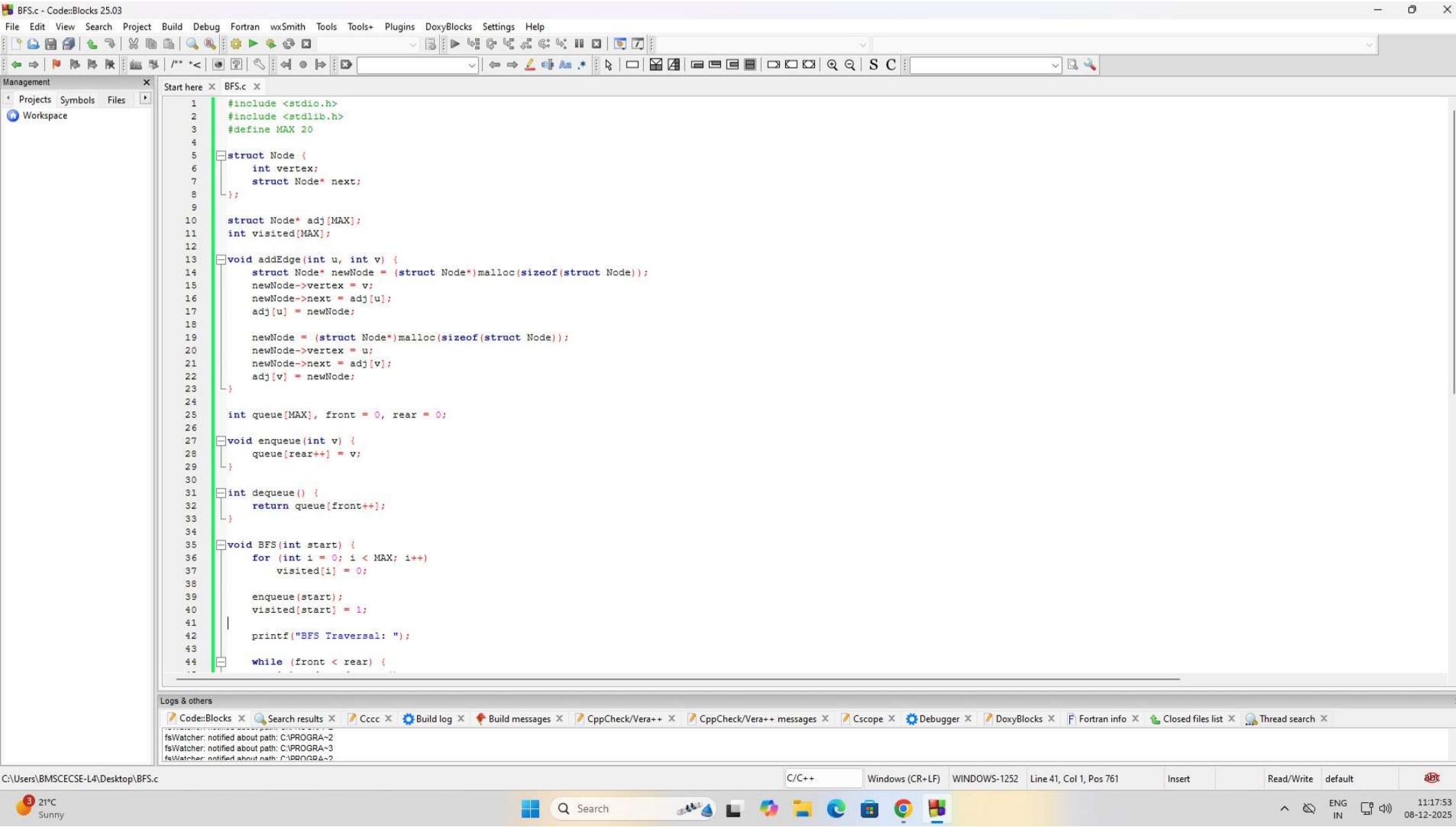
BFS.c - Code::Blocks 25.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
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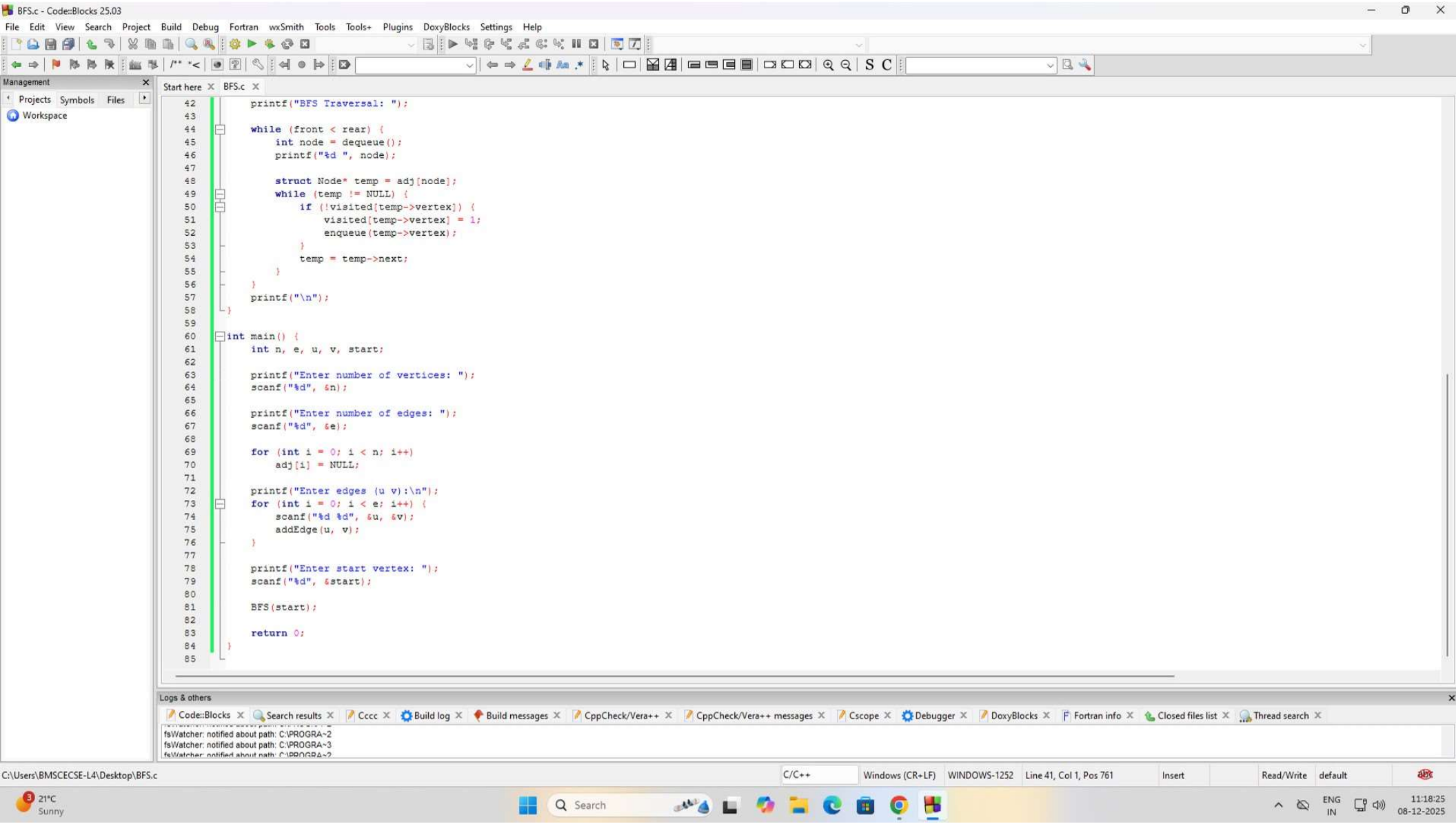
BFS.c
#include <stdio.h>
#include <stdlib.h>
#define MAX 20
struct Node {
int vertex;
struct Node* next;
};
struct Node* adj[MAX];
int visited[MAX];
void addEdge(int u, int v) {
struct Node* newNode = (struct Node*)malloc(sizeof(struct Node));
newNode->vertex = v;
newNode->next = adj[u];
adj[u] = newNode;
newNode = (struct Node*)malloc(sizeof(struct Node));
newNode->vertex = u;
newNode->next = adj[v];
adj[v] = newNode;
}
int queue[MAX], front = 0, rear = 0;
void enqueue(int v) {
queue[rear++] = v;
}
int dequeue() {
return queue[front++];
}
void BFS(int start) {
for (int i = 0; i < MAX; i++)
visited[i] = 0;
enqueue(start);
visited[start] = 1;
printf("BFS Traversal: ");
while (front < rear) {
Logs & others
Code::Blocks
Search results
Cccc
Build log
Build messages
CppCheck/Vera++
CppCheck/Vera++ messages
Cscope
Debugger
DoxyBlocks
Fortran info
Closed files list
Thread search
fsWatcher: notified about path: C:\PROGRA~2
fsWatcher: notified about path: C:\PROGRA~3
C:\Users\BMSCECSE-L4\Desktop\BFS.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 41, Col 1, Pos 761
Insert
Read/Write
default
21°C
Sunny
Search
ENG
IN
11:17:53
08-12-2025


BFS.c - Code::Blocks 25.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
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Start here
BFS.c
printf("BFS Traversal: ");
while (front < rear) {
int node = dequeue();
printf("%d ", node);
struct Node* temp = adj[node];
while (temp != NULL) {
if (!visited[temp->vertex]) {
visited[temp->vertex] = 1;
enqueue(temp->vertex);
}
temp = temp->next;
}
}
printf("\n");
}
int main() {
int n, e, u, v, start;
printf("Enter number of vertices: ");
scanf("%d", &n);
printf("Enter number of edges: ");
scanf("%d", &e);
for (int i = 0; i < n; i++)
adj[i] = NULL;
printf("Enter edges (u v):\n");
for (int i = 0; i < e; i++) {
scanf("%d %d", &u, &v);
addEdge(u, v);
}
printf("Enter start vertex: ");
scanf("%d", &start);
BFS(start);
return 0;
}
Logs & others
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Read/Write
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Sunny
Search
ENG
IN
11:18:25
08-12-2025

C:\Users\BMSCECSE-L4\Deskt

```
Enter number of vertices: 6
Enter number of edges: 8
Enter edges (u v):
1 3
1 2
2 6
3 6
3 4
4 6
5 6
4 5
Enter start vertex: 1
BFS Traversal: 1 2 3 6 4 5

Process returned 0 (0x0)   execution time : 50.020 s
Press any key to continue.
```