```
function TEMP_NODE= ADD_LINEAR(NODE_DIST, TREE, NODES, GOAL)
                                 %SETS NODE JUST ADDED TO THE CLOSEST NODE
CLOSE_NODE=TREE(NODES,1:2);
                                 %TO TEST A STRAIGHT PATH FROM IT
%DETERMINES THE DISTANCE TO THE GOAL
*CHECK TO SEE IF THE GOAL HAS BEEN REACHED BY COMPARING
%THE DISTANCE TO THE GOAL TO THE NODE DISTANCE
if (GOAL_DIST<=NODE_DIST)</pre>
   TEMP_NODE(1:2) = GOAL;
   TEMP_NODE(3)=NODES;
           %TREE((NODES+1), 1:2)=GOAL;
           %TREE((NODES+1),3)=NODES;
           %DONE=1;
           %NODES=NODES+1;
else
    LOCATION OF TEMPORARY NODE IN THE DIRECTION OF THE GOAL
   TEMP_NODE(1) = CLOSE_NODE(1) + NODE_DIST*(GOAL(1) - CLOSE_NODE(1)) / GOAL_DIST;
   TEMP_NODE(2)=CLOSE_NODE(2)+ NODE_DIST*(GOAL(2)-CLOSE_NODE(2))/GOAL_DIST;
   TEMP_NODE(3)=NODES;
end
end
Input argument "NODES" is undefined.
Error in ==> ADD_LINEAR at 5
CLOSE_NODE=TREE(NODES, 1:2);
                                *SETS NODE JUST ADDED TO THE CLOSEST NODE
```

%X

%Υ

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