

```
numRows
numCols
startRow
startCols
Trials = 100
```

```
colormap([.035 .200 .153; 1.00 .367 .063; .561 .510 .592])
```

```
Outcomes = [R B L T C]
Bottom_outcome = 25;
[- .25 - - -]
```



```
For all trials
% here a single trial
```

```
% 1 = tree
% 2 = fire
% 3 = visited cell
Forest = ones(numRows, numCols);
Forest(startRow, startCol) = 2;
```

```
fireRow= startRow;
fireCol = startCol;
```

```
While .....fire can burn.....
%fire movement
% I need to check the possible movemnts
If north direction is 1, I can add north to my vector
% repeat for all othe directions
....
```

```
possibleDirections = ['N' 'S' 'W' 'E'];
```

```
If length(possibleDir) == 0;
Break;
```

```
Index = randi(length(possiblDir));
nextDir = possibleDirections(index);
```

```
% now I move
If nextDir == 'N':
    Forest(fireRow, fireCol) = 3;
    fireRow = fireRow - 1;
    Forest(fireRow, fireCol) = 2;
Elseif nextDir == 'S'
    fireRow = fireRow + 1;
```

....

```
If trials == 1
    %plot
    Image(forest);
    Pause(0.2);
end
```

```
% end the while
End
```

```
% Check the outcome and update the outcomes vecotr
If fireCol == numCols %R
```

```
        Outcomes(1) = Outcomes(1) + 1;  
    Elseif %B  
    Elseif %L  
    Elseif %T  
    Elseif %C  
  
%end the for loop  
end
```