16.4.1

## Advanced Recursion Problems

Print all possible permutations of a string

```
Void permutation (string s, string ams) {

if (s length() == 0) {

cout < c ams < c end);
```

cout < ans < return;

for (int i=0; i<s.length(); i++) {

char ch = s[i];

string ros = s.substr (0,i) + s.substr(i+1)

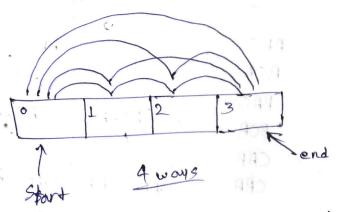
permutation (ros, anstch);

usage: permutation ("ABC", ");

## 1 Count the number of paths possible from

## Start point to end point in gameboard.

boardgame, CPP





1-6 & step size

code:

```
int count Path (int s, int e) {

if (s == e) {

return 1;

}

if (s > e) {

return 0;

}

int count = 0;

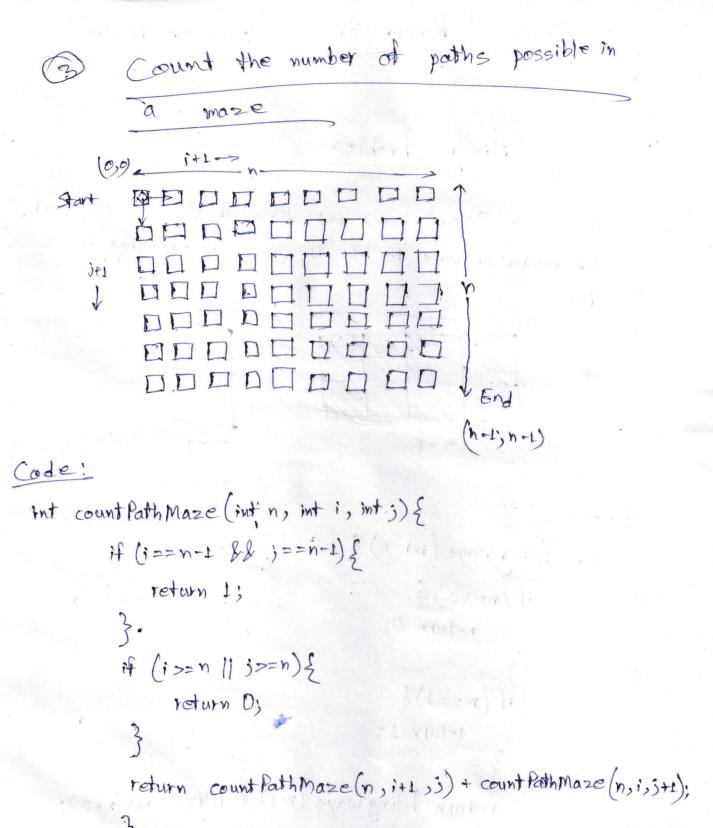
for (int i=1; i <= 6; i+t) {

Count += count Path (Sti, e);

}

return count;
}
```

usage: cout << count Path (0,3) << endl; > 4



usage: count Path Maze (3,0,0); > cout <<? > < end);