## [报告] UVA 639 Don't Get Rooked

[Source] http://uva.onlinejudge.org/external/6/639.html

[Description]

[Solution]

这个题暴搜就可以了。

## [Code]

```
#include<cstdio>
#include<cstdlib>
#include<cstring>
using namespace std;
int judge(int n,char ch[][10],int i,int j)
      int a;
      if(i!=1)
             for (a=i-1;a>=1;a--)
                   if(ch[a][j]=='X') break;
             else if (ch[a][j] == 'O') return 0;
      if(i!=n)
             for (a=i+1; a<=n; a++)
                   if(ch[a][j]=='X') break;
             else if(ch[a][j]=='0')
                                       return 0;
      if(j!=1)
             for (a=j-1;a>=1;a--)
                    if(ch[i][a] == 'X') break;
             else if(ch[i][a]=='0')
                                       return 0;
      if(j!=n)
             for (a=j+1; a<=n; a++)
                   if(ch[i][a]=='X')
                                       break;
             else if(ch[i][a]=='0')
                                       return 0;
      return 1;
}
```

```
int dfs(char chess[][10],int n)
      int max=0,num=0,i,j;
      for(i=1;i<=n;i++)
             for(j=1;j<=n;j++)
             {
      if((chess[i][j]=='.')&&judge(n,chess,i,j))
                           chess[i][j]='0';
                           num=dfs(chess,n)+1;
                           if (max<num) max=num;</pre>
                           chess[i][j]='.';
                    }
      return max;
}
int main(void)
      char chess[10][10];
      int n;
      while (scanf("%d", &n) &&n)
             if(!n) break;
             int i;
             memset(chess, 0, sizeof(chess));
             for(i=1;i<=n;i++)
                    scanf("%s",chess[i]+1);
             printf("%d\n",dfs(chess,n));
      return 0;
}
```