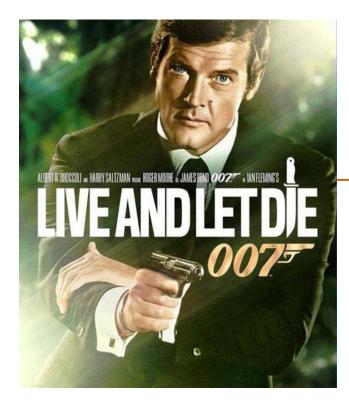
第六讲图(上)

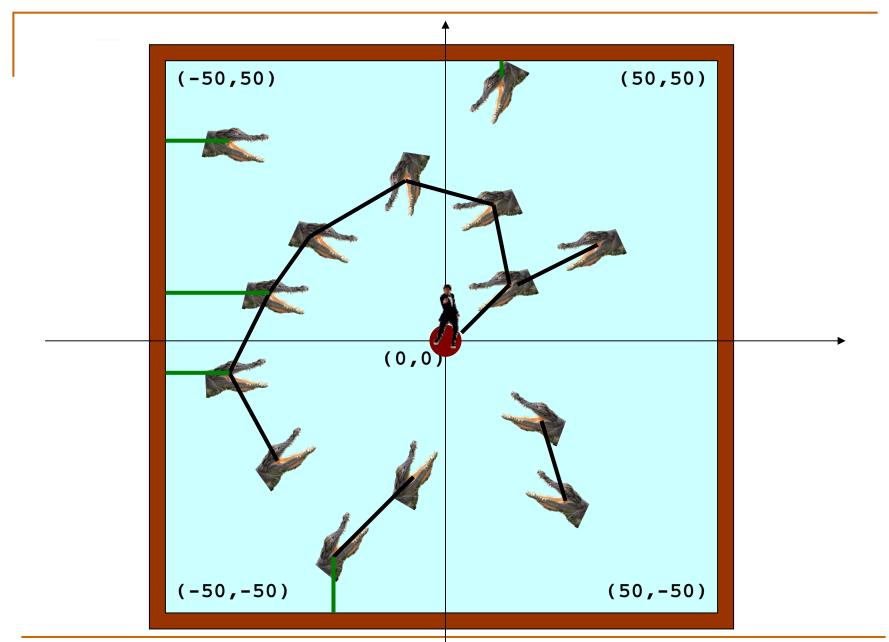
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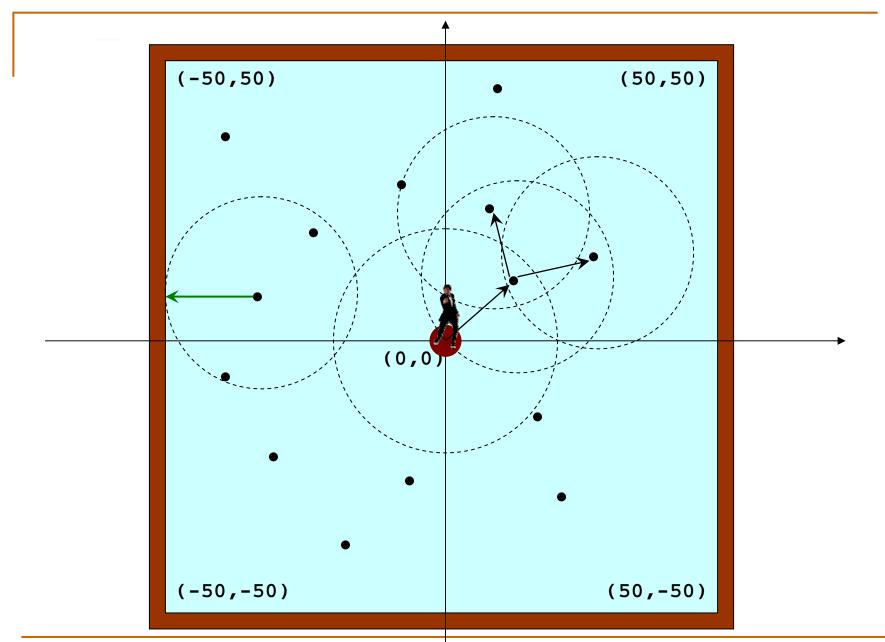
6.3 应用实例: 拯救 007













总体算法

```
void ListComponents ( Graph G )
{ for ( each V in G )
    if ( !visited[V] ) {
        DFS( V );
    }
}
```

```
void Save007 ( Graph G )
{ for ( each V in G ) {
    if (!visited[V] && FirstJump(V)) {
        answer = DFS( V );
        if (answer==YES) break;
    }
    }
    if (answer==YES) output("Yes");
    else output("No");
}
```



DFS算法

```
void DFS ( Vertex V )
{ visited[V] = true;
  for ( V 的每个邻接点 W )
    if ( !visited[W] )
        DFS(W);
}
```

```
int DFS ( Vertex V )
{ visited[V] = true;
  if ( IsSafe(V) ) answer = YES;
  else {
    for ( each W in G )
      if (!visited[W] && Jump(V,W)) {
        answer = DFS(W);
        if (answer==YES) break;
      }
    }
    return answer;
}
```

