Practice Assignment: Lecture Example 1
Simple Search 1
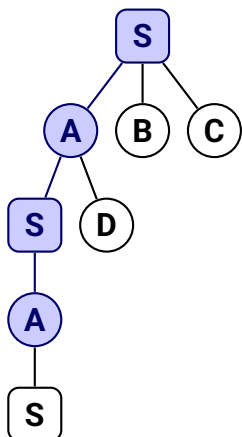Prepared by S. Baskaran

State Space
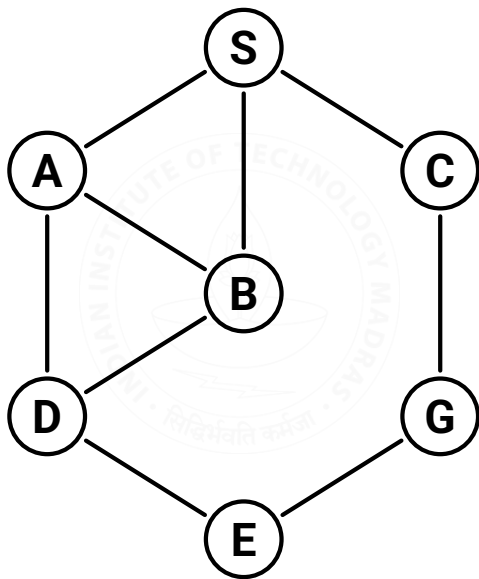
X	MoveGen(X)
S	[A,B,C]
A	[S,B,D]
B	[S,A,D]
C	[S,G]
D	[A,B,E]
E	[D,G]
G	[C,E]

Simple-Search-1 − Search Tree

Simple-Search-1 – Solution

OPEN and moveGen are sets. In each iteration, Simple-Search-1 removes one node from OPEN and inspects/expands that node.

In this example, we chose to remove the latest/newest node from OPEN.

```
OPEN          {S}


1.
NODE          S
moveGen       {A,B,C}
OPEN          {A,B,C}


2.
NODE          A
moveGen       {S,B,D}
OPEN          {S,D,B,C}


3.
NODE          S
moveGen       {A,B,C}
OPEN          {A,D,B,C}


4.
NODE          A
moveGen       {S,B,D}
OPEN          {S,D,B,C}


...  and so on  ...
```