Extra - Exercise 1 - Q 3

Q xi)DFS (ii) BFS (iii) I DS (iV) Back Tracking

Solution (i) DFS

Open

close

A

[]

EBJ

A

FaBJ

ΕA

aBJ

FEA

HIBJ

GFEA

ZBJ

HGFEA

find the goal I

AEFGMI

cii) BFS

Open

Closed

A

[]

EBJ

A

BJFG

EA

JF4 CD

BEA

FACDKL

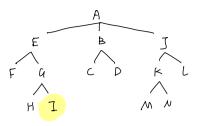
JBEA

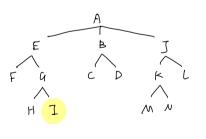
GLDK L

FJBEA

CDKLHI

GFJBEA





DKLHZ CGFJBEA

KLHZ DCGFJBEA

LHIMN KDCGFJBEA

HIMN LKDCGFJBEA

IMN HLKDCGFJBEA

find the goal I

AEBJF GCDKL HI

(iii) IDS

ODepth: (

Open Closed

A []

EBJ A

BJ EA

J BEA

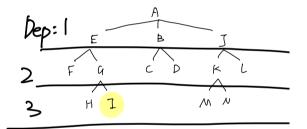
[] JBEA

@ Depth: 2

open closed

A []

EBJ A



FaBJ	EA
GBJ	FEA
BJ	a FEA
CDJ	BGFEA
DJ	CBCFEA
J	DCBGFEA
RL	JDCBGFEA
L	KJDCBGFEA
	LKJDCBGFEA
3 Depth:	3
Open	Close
A	
EBJ	A
FaBJ	ΕA
abJ	FEA
HIBJ	GFEA
ZBJ	HGFEA
Depth:1	ABEJ
Depth: 2	AEFUB CDJKL
Depth:3	AEFGHI

(iv) BT NSL DE CS SL A [] A Ą []E EA EBJA FGEBJA ΓJ F FEA F GEBJA GEA a HIGEBJA F HGEA H IGEBJA HF IGEA I find the goal AEFGHI.