

EX1 - Q2

Q. Man Fox Goose Peas $\bigcirc \leftarrow \bigcirc$

(i) initial state \leftarrow

(ii) operator

(iii) search tree

Solution (i) initial $(\{ \}, \{M F G P\})$
 goal $(\{M, F G P\}, \{ \})$

(ii) Operator

1. take F
2. take G
3. take P
4. Leave alone.

(iii)

operate	left	right
	{}	MFGP
2	MG	FP
4	G	MFP
3	MPG	F
2	P	MAF
1	PFM	G
4	PF	MG
2	MFGP	{}

operate	left	right
	{}	MFGP
2	MG	FP
4	G	MFP
1	MFG	P
2	F	MAP
3	PFM	G
4	PF	MG
2	MFGP	{}