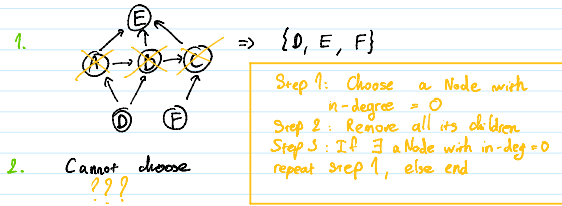


Ex1

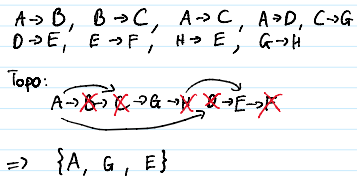
- The sign $A \rightarrow B$ indicates that the alternate A is more favourable than B.
- $A \rightarrow B; A \rightarrow C; D \rightarrow B; D \rightarrow A; C \rightarrow E$; and $F \rightarrow C$
- 1. Choose the group of nondominant alternatives
- 2. Choose the best alternative given from the above information



Assignment 5: Kernel

- The sign XRY indicates that the alternate X is more favourable than Y.
- Choose the group of nondominant alternatives (Kernel), given that:

ARB; BRC; ARC; AND; CRG; DRE; ERF; HRE; GRH



Assignment 7: Kernel

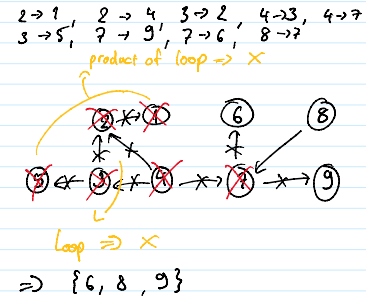
- The sign $X \rightarrow Y$ indicates that the alternate X is more favourable than Y.
- Choose the group of nondominant alternatives (Kernel), given that:

$A \rightarrow B; A \rightarrow E; B \rightarrow C; D \rightarrow B; D \rightarrow A; C \rightarrow E; F \rightarrow C$

Assignment 6: Kernel

- The sign XRY indicates that the alternate X is more favourable than Y.
- Choose the group of nondominant alternatives (Kernel), given that:

2R1; 2K4; 3R2; 4R3; 4R7; 3R5; 7R9; 7R6; 8R7



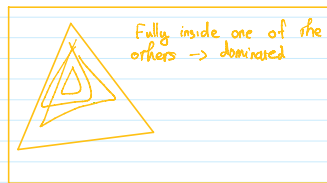
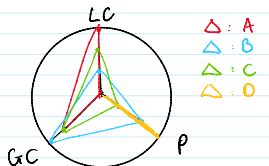
Ex2

Please help Mr. A to choose which car should buy among four kinds of car (A, B, C, D) for his transportation.

- Find the dominated alternative if any (that is you can ignore this one)
- Use the method of Collective Utility to find the best alternative

Alternative	A	B	C	D	W
Life cycle	1	2/3	1/3	0	0,3
Gas con.	2/3	1	2/3	0	0,4
Price	0	1/3	1/3	1	0,3
C.U	1/30	2/30	1/30	9/30	

- Dominated alt: Use polygon model



Assignment 3

Please choose the project among three kinds of project (A, B, C) with the data given in the below table.

Project	A	B	C	W
21 (5 million \$/yr)	11	7	0,35	
22 (volume of product)	8	5	0,65	

	A	B	C	W
21	0	1	1/5	0,35
22	1	0	1/3	0,65
C.U	0,65	0,35	0,2857	1



Assignment 8

Mr. A is building new product. He has 2 product proposals in the below table. Please choose the product among 4 kinds of product (A, B, C, D).

Product	A	B	C	D	W
DC	2/3	1	0	2/3	0,2
D/Y	1/2	1	0	1/4	0,25
LC	0	1	1/5	2/3	0,3
P/U	0	1	3/8	1/2	0,15
T	1	0	2/3	2/3	0,1
C.U	1/40	2/10	15/80	13/40	

	A	B	C	D	W
DC	2/3	1	0	2/3	0,2
D/Y	1/2	1	0	1/4	0,25
LC	0	1	1/5	2/3	0,3
P/U	0	1	3/8	1/2	0,15
T	1	0	2/3	2/3	0,1
C.U	1/40	2/10	15/80	13/40	

