

## PART-1      Written Problem.

### Observations:

The white knight, Black knight & Black pawn are killed.

The white knight killed both the Black knight and black pawn.

### The solution:

White knight moves from b1  $\rightarrow$  c3

Black pawn moves from d7  $\rightarrow$  d6

White knight moves from c3  $\rightarrow$  d5

Black knight moves from b8  $\rightarrow$  d7

White knight moves from d5  $\rightarrow$  e7

Black pawn dies

Black knight moves from d7  $\rightarrow$  f6

White knight moves from e7  $\rightarrow$  g8

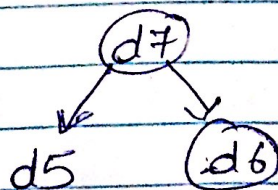
Black knight dies

Black knight moves from f6  $\rightarrow$  g8

White knight dies.

### Approach:

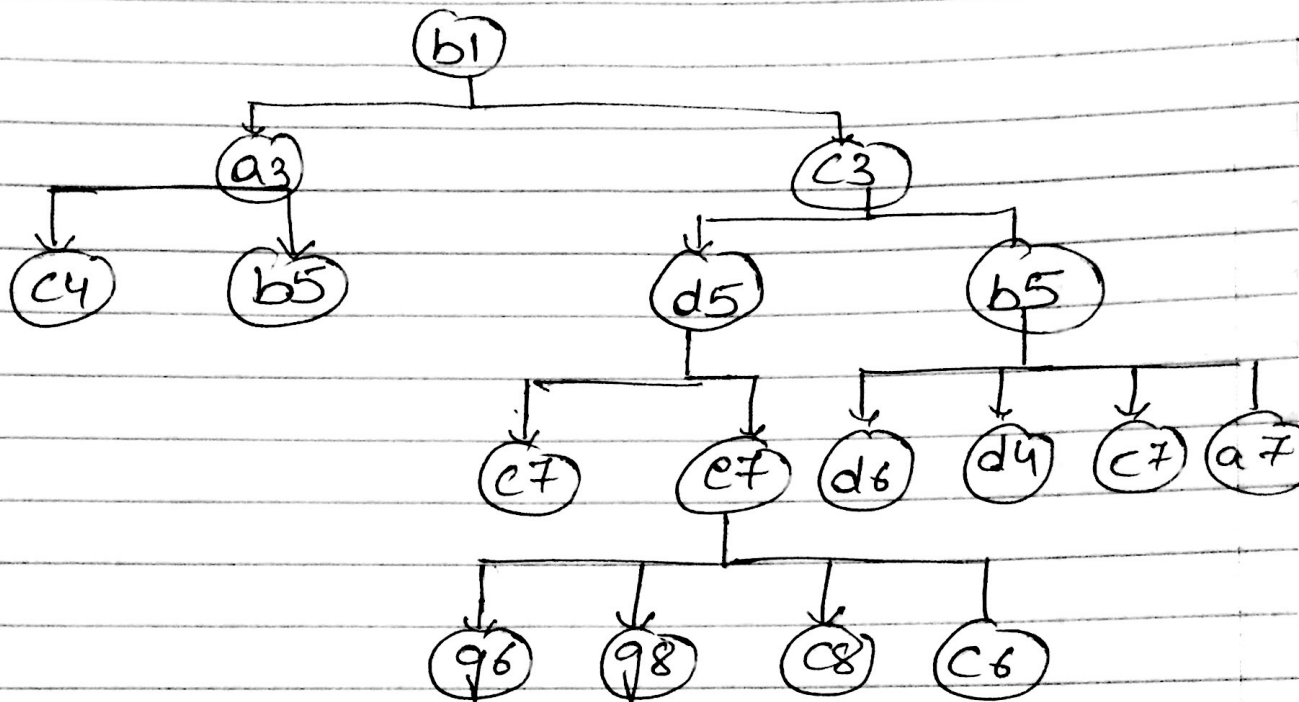
The possible moves of the black pawn considered from the beginning:



considering the current state picked up

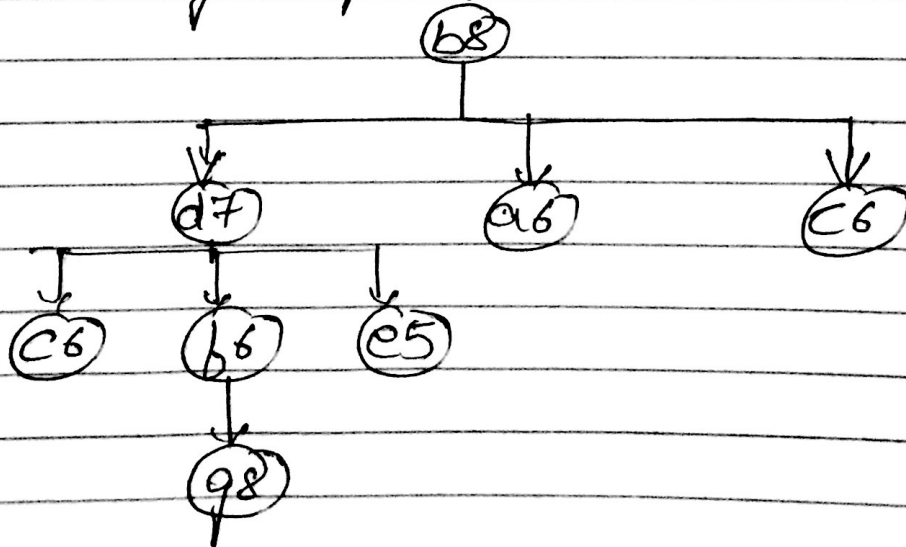
$\textcircled{d7} \rightarrow \textcircled{d6}$

The possible moves for Black Knight :



Depending on trial and error the path of black knight calculated as  $b1 \rightarrow c3 \rightarrow d5 \rightarrow e7 \rightarrow g8$

Black knight possible moves



Trial and error leads to the path  $b8 \rightarrow d7 \rightarrow b6 \rightarrow g8$