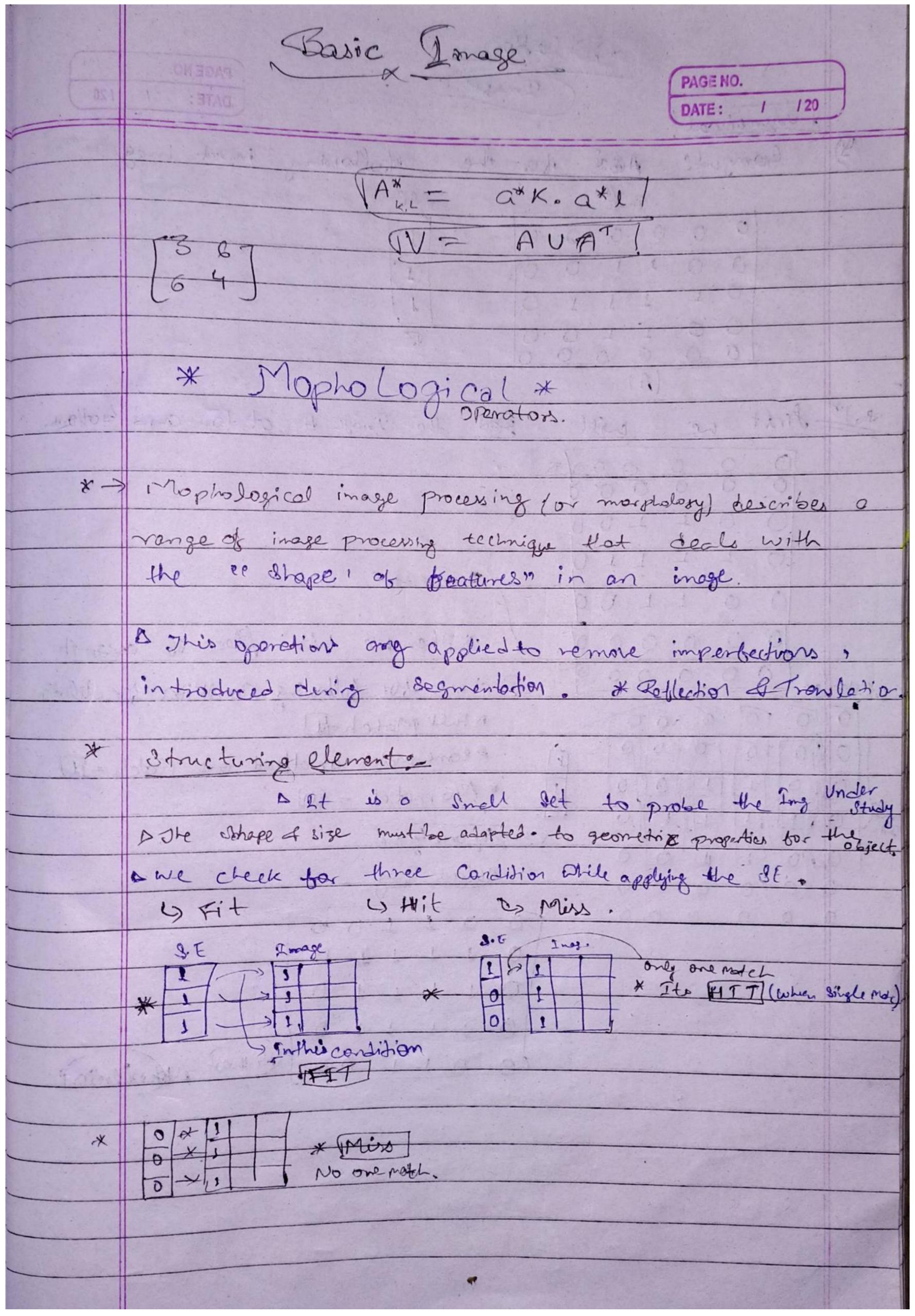
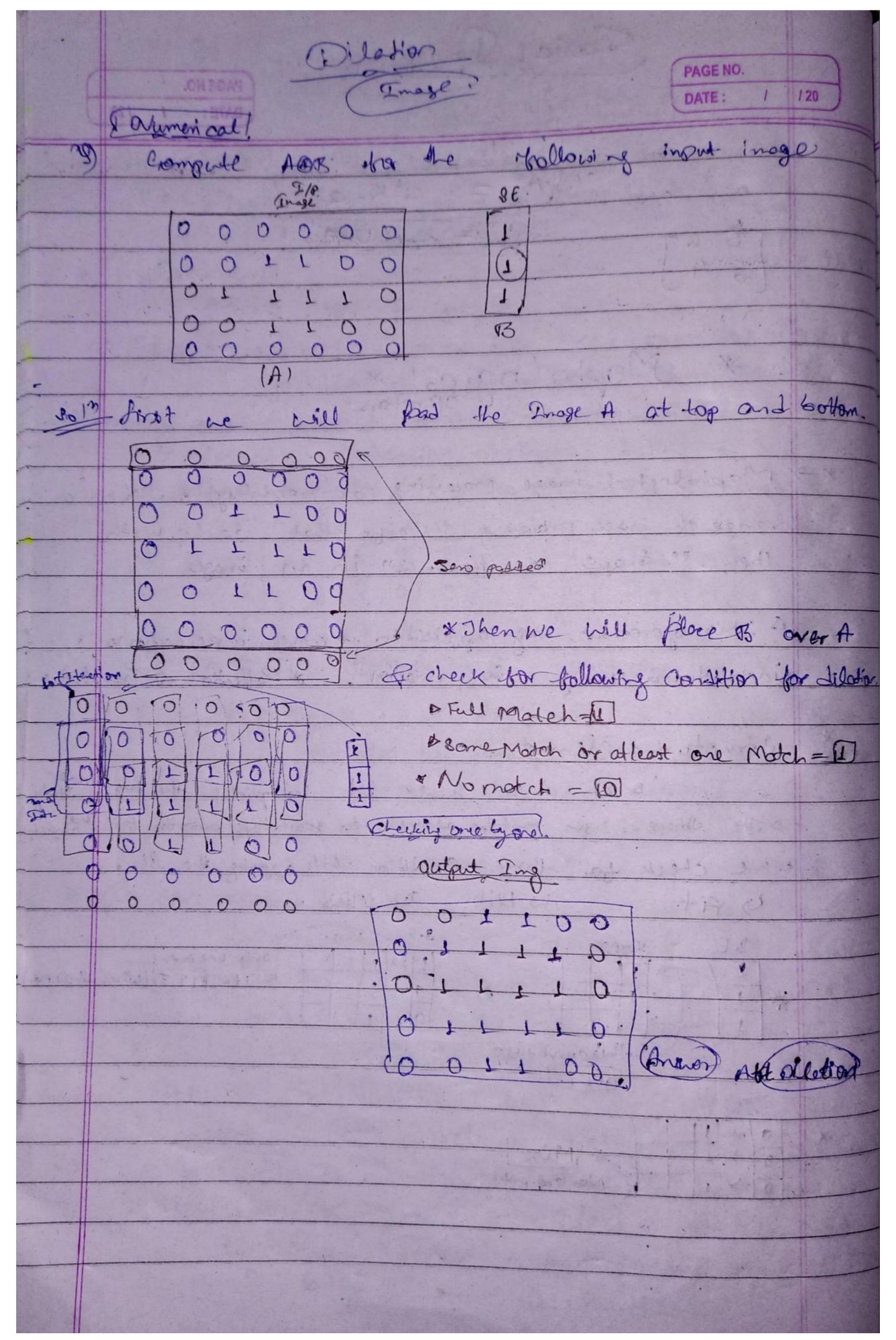


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egion Based Begmen Lation & DATE: * Ihree orethads of performing dogmentation · Folges Based. Edges Baseds -* Two Stepl is Heres. o Edge Detection: - Hereg he need to find the pixels of an object. There are mony edge pixels of an object. There one many Object Detection methods such as - Sobel operator, laplace operators, comy, etc. (Bobel verticel) [Horizontal sold! [wegative Laplace] · Edge clinking ?- he dry to rethe the edge destertion by linking the adjocent odges and consistince to form the whole object. It peralpoined by using two method: & Local & Global procuring. Region - Bosed on we grow resions by recursing including the neighboring Givels that one similar and connected to the sold pixel. There two vortant at region based:-* Top Dewn approache- first ne need to define the pre defined seed pixel, fither we can define all pixels as seed pixels or reasonly prixel in the image telongs to the region. * Bo Jon - up growch :- Delect doed only from obsects at interest. Grow regions only of the Similarity contenion is fulctilled.

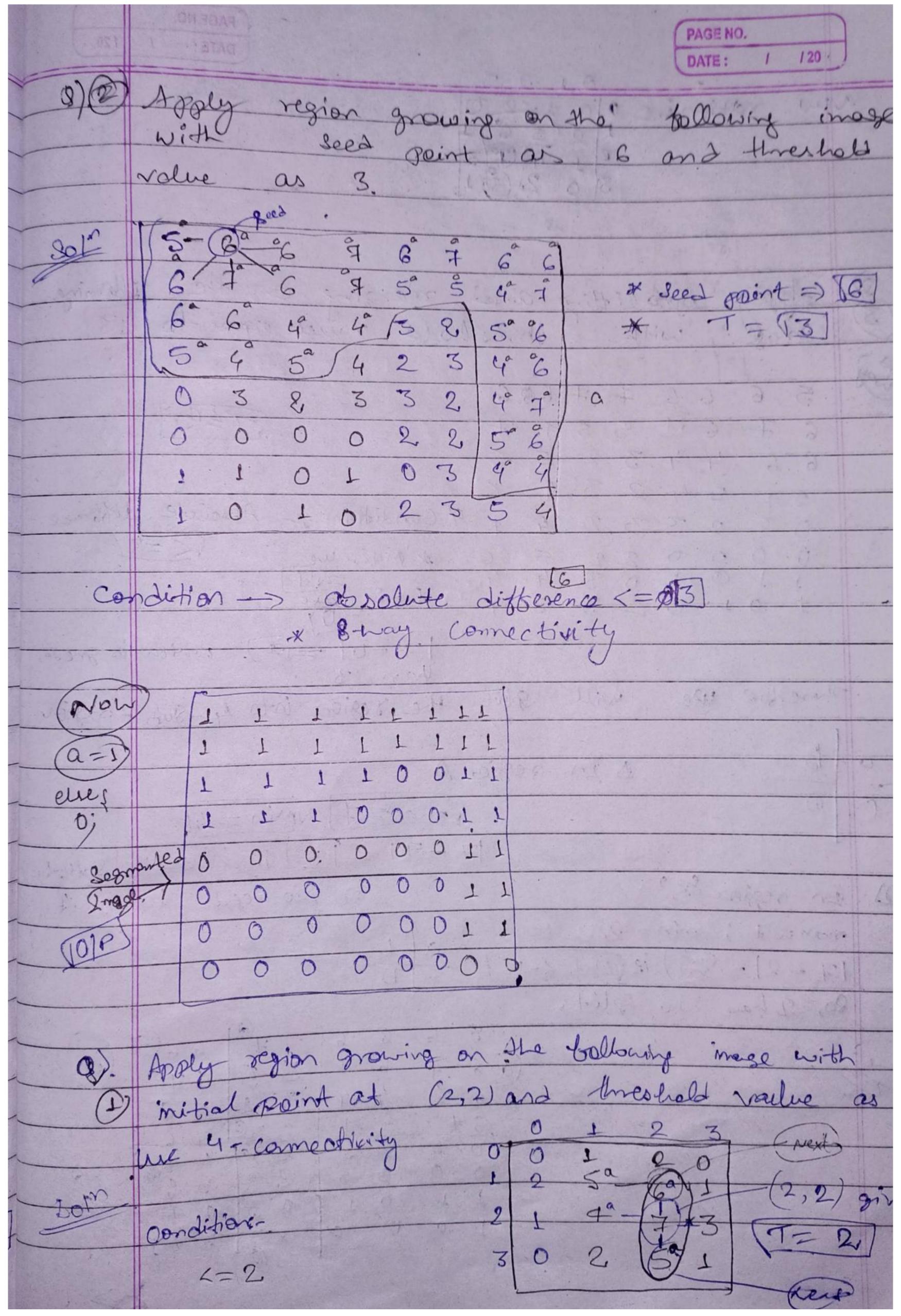


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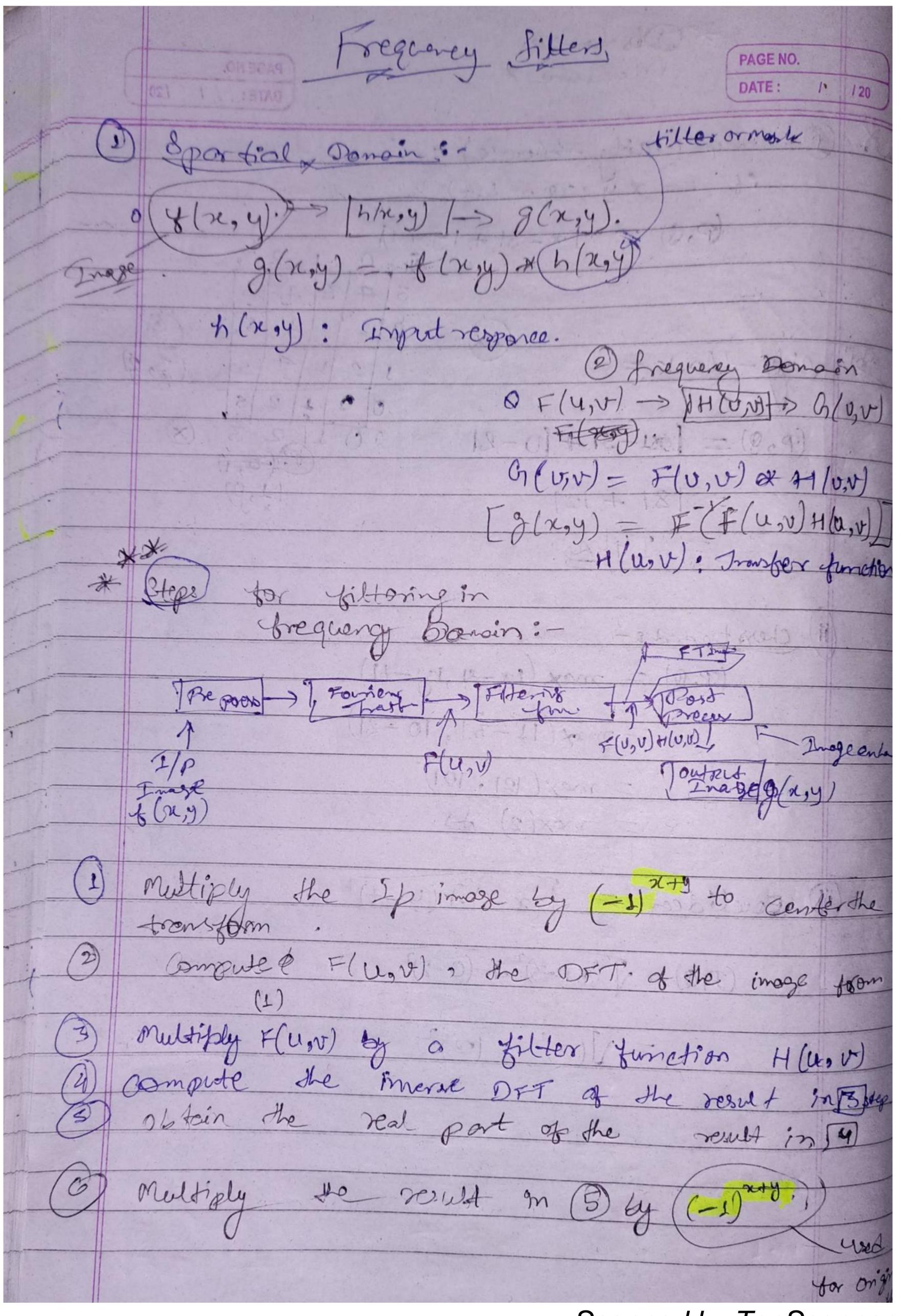


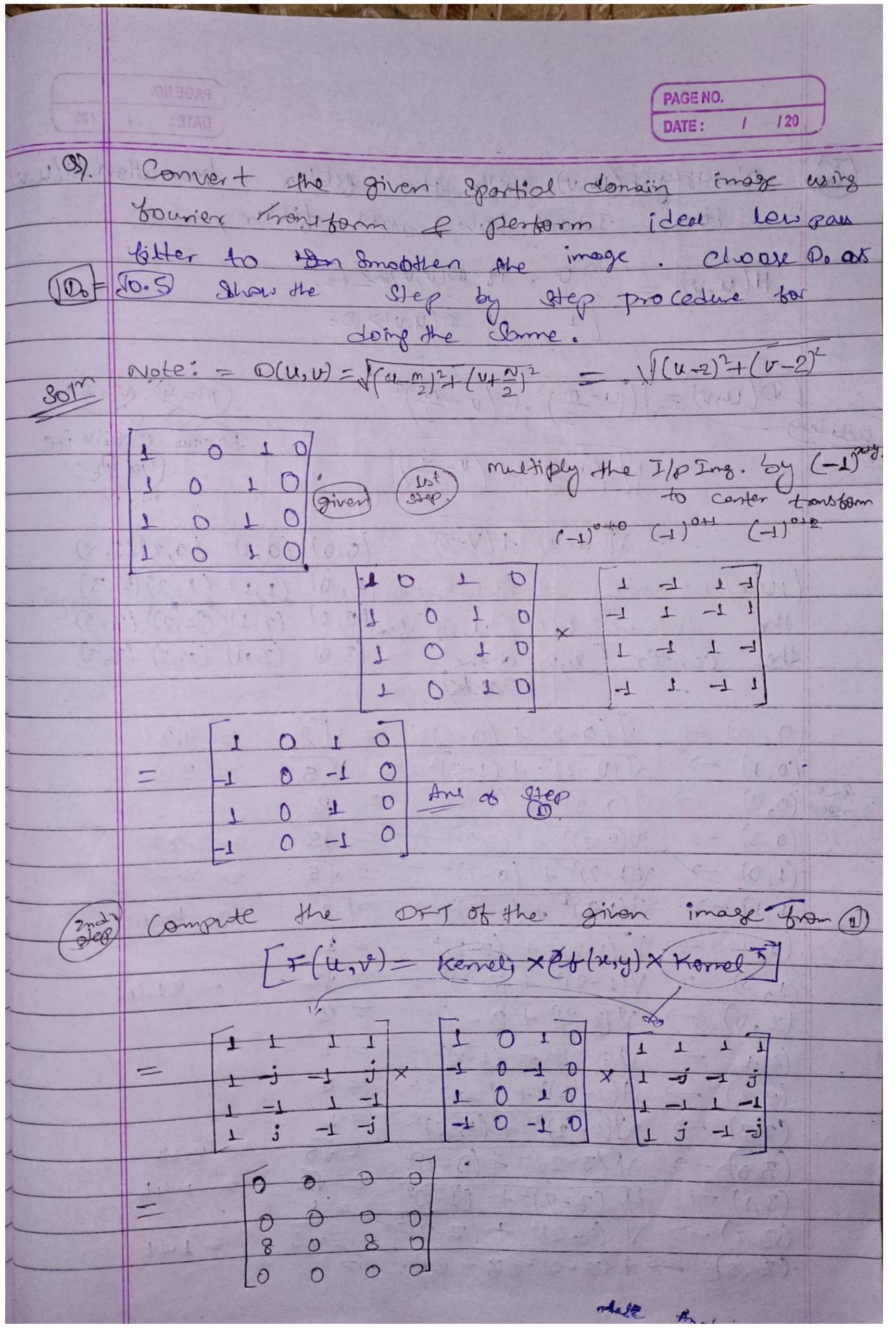
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PAGE NO. Amerbolds Sometimes do not give good result 9 30 gmentation. D'Egion Growing: - steps 0:-Drind all connected components in Streng) and reduce each connected components one pixel label all such' procely found as s. All other pixels in s' que lebelle 2 0, (zero). 2) Form on imost to Such Hat a delech point (x,y), to (x,y) =1 if the input image Satisfies a given predicate, Q, at those and for (x,y) = 0 otherwise Frocedure for Region splitting & merging:a region R is in homo geneous (P(R) = Falle then R is Eplit into four Sub- region. 2 adjocent segion Ri, Rjone home geneous (P(RivRj) = True), then they are orlerged. The algorithm stops when wo busher oplititing or merging is gossible Note cordition: for region grown:



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