Boute Frace Parlews Seasching OB Naive Palling
Seasching Simpless method to solve the string

matching problem.

Problem 8- Given a leat String of

length n and a pattern' string

Not length in and a pattern' string Occurros of the pattern within the Brute Force algo Compares the pattern

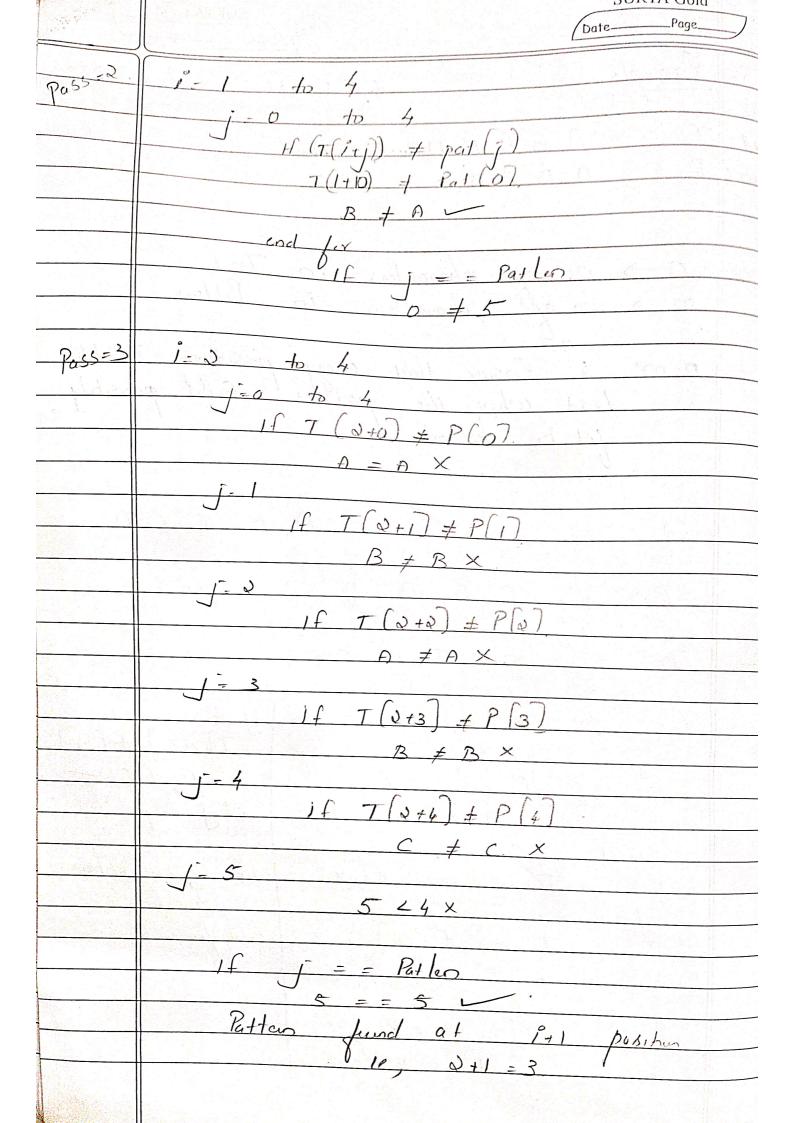
to the fext, one character at at

a time, curtil commatching characters found This method is effective for short We try to match the first character of
the pattern with the first character or
our main text and it we Succeed

try to match the 2nd character by so on

If we hit a fewlere point, to
Shift the pattern over one character and try adown.

Starting beation.



SURYA Gold Found. B P B C C P Best Case :- when the partien matches

when the first set of characters of

the leat.

So the complexity is O(m)

where on is the length of pattern Worst Case: When all characters of the

text and pattern are Same or Only

the last character is defeunt or

when pattern not found.

For each text position, the algorithm

Years through the entire pattern before

deciding a match or mismatch, leading

to the Complexity up O(m\*n) Average Case : O (m to) for overy

pusition as the fext, a Companson

13 made with the pattern.

The no of Compansons in the average Case

Can be blow than in the worst Case But it is still proportunal to mn.