STRUCTURED ENGLISH: ALGORITHMS · Generally speaking, there wen't any specific, definite rules that have to be followed while writing an algorithm in structured english. · However, there are a set of guidelines that should be followed in order to write good structured English. They are as follows: · It should be very easy to "extract" variable names from the structured English That is it should be easy to look at the structured English and decide what variables would probably be used in the actual program and what their identifier names (variable names) would be · Types of processes should be easily identifiable: i) Input and output should be indicated by using words like "enter," "take as input", "print", "display", etc. ii) Selection should be indicated by using words like "if", "in the case that...", "choose", etc. iii) Any iteration should be indicated using words like "while true, do ... ", "repeat ", etc. STEPWISE REFINEMENT · Stepwise refinement refers to recursively breaking down the steps of a structured list to a chieve a more detailed and comprehensive list. · This can be very helpful when writing algorithm for very large and for complex problems, as it helps in breatency down large problems into smaller problems, which are then easier to solve and work through. It also allows for a more robust algorithm as every detailed and facet of the problem is being concerned Example of slepuise retirement: Initial Structured English 1. Enter time taken to run marathon in hows, minutes, and seconds

2. Calculate and store marathon time in seconds 3. Output marathon time in seconds

breaking down the rist step:	
1. Enter time taken to run marathan in hours, minutes, and seconds	
1.1. Enter the hours 1.2 Enter the minutes	
1.3 Enter the seconds	
2. Calculate and store marathon time in seconds	
3. Output marathan time in seconds	
Further breaking down the sub-steps of the first step:	
TOTAL SIENER OF AND SUB-SHIPS OF THE MIST SIED.	
1. Enter time taken to run marathon in hours, minutes, and seconds	
> 1.1.1. Input value for hours	
1.1.1. Input value to rooms	
→ 1.1.2 Check input in range 2 to 8 → 1.1.3 Reject it out of range or not a whole number, then reinput	
1.1.4 Accept and store value in hours	١.١٠٠,
T.I.M Hecept and store dame in hours	
1.2 Enter the minutes	
1.2.1. Input value for minutes	
1.22 Check input in range 0 to 59	
- 1.2.3 Reject it out of range or not a whole number, then reinput	<u>(1.2.</u>
1.2.4 Accept and store value in minutes	
1.3 Enter the seconds	
1.3.1. Input value for seconds	
1.3.2 Check input in range 0 to 59	
-> 1.3.3 Reject it out of range or not a whole number, then reinput	(1.2.
1.3.4 Accept and store value in seconds	
2. Calculate and stone marathon time in seconds	
3. Output marathan time in seconds	