· Defending on condn., now_left = 16t+ right + 1 or, new_right = lettinght -1. · Now, new left > old-right iff left tright = right, or left=right Pr · Similarly, new right old-left iff left=right. . Since, we have moved to the next Heration, it mans search num & + list left] Sc, searchnum & list [o...n-1], and the loop terminates and returns -1, as it should. Exercises-1.9 1.) a) Is n=2 the largest value of n for which there exist the integers 2, y and I such that 2n+yn=In has a solution? b) Stope 5 divided by 0 into x and go to statement 10. both fail to satisfy one of the five criteria of an algorithm. Which criterion do they victate [Soln: b) What is Statement 10% Not specified. Ambiguous instruction. a) Weldes firsteness (since we don't know) how many triples of x,y,Z we need to cheek effectively) and it also violates effectiveness; the instructions cart be computed manually. 2) Horrer's rule is a strategy for evaluating a polynomial A(x)= anx 1 + an-12 n + 1 + at a at point to using a minimum no of multiplications. This rule is: A(xo)=(....((anxo+an-1)xot...+a)xo+ao) Wrote a C program to evaluate a polynomial using Hornor's rule. 248412= (24+3)2+12