Worksteet 5

1.a. 7 (3 MER 3 xoElR Yxxx [F(x)] = Mlg(x)])

= YMEIR YxselR 3xxxx 7 (If(x)(4Mlg(x)))

= \frac{\frac{1}{2} \times \frac{1}{2} \times \times \frac{1}{2} \times \times \frac{1}{2} \times \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \frac{1}{2} \times \frac{1}{2} \fra

1.1. HnelR ((frn) > g(n)) / (f(n) ≠ 0 (g(n))))

1.c. $(f(n) \neq O(g(n))) \longrightarrow (g(n) \neq SZ(f(n)))$

2.a. The output type is an integer. 2.6

Ya. An optimitation problem is a problem in which the goal is to optimize (minimize, maximize) a faction subject to some constraints. 4.6. A greedy algorithm is one that, at every step, makes the best choice from the options it has at that step. 4.c. j - 1 1 2 2 3 3 SQ Q st, 3 st, 1 st, t, 2 st, 2 st, t, t, t, t