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Class SE 4367.001 - Software Testing

Assignment Homework #6

Equivalence Classes and Boundary Value Analysis

1. What are the equivalence classes for Income in this problem?
   1. E1 = [0 , 9999]
   2. E2 = [10000 , 19999]
   3. E3 = [20000 , 29999]
   4. E4 = [30000 , 39999]
   5. E5 = [40000 , + infinity]
2. Create a test set generated from your equivalence classes.
   1. T = {T0, T1, T2, T3, T4, T5, T6, T7, T8}
   2. T0 : (income = 0)
   3. T1 : (income = 9999)
   4. T2 : (income = 10000)
   5. T3 : (income = 19999)
   6. T4 : (income = 20000)
   7. T5 : (income = 29999)
   8. T6 : (income = 30000)
   9. T7 : (income = 39999)
   10. T8 : (income = 40000)
3. What are the boundaries for Income in this problem?
   1. 0, 9999, 10000, 19999 , 20000 , 29999, 30000 , 39999, 40000
4. Create a test set generated from (3-point) boundary value analysis.
   1. T = {T0, T1, T2, T3, T4, T5, T6, T7, T8}
   2. T0 : (income = -1), (income = 0), (income = 1)
   3. T1 : (income = 9998), (income = 9999) , (income = 10000)
   4. T2 : (income = 9999), (income = 10000), (income = 10001)
   5. T3 : (income = 19998), (income = 19999), (income = 20000)
   6. T4 : (income = 19999), (income = 20000), (income = 20001)
   7. T5 : (income = 29998), (income = 29999), (income = 30000)
   8. T6 : (income = 29999), (income = 30000) , (income = 30001)
   9. T7 : (income = 39998), (income = 39999), (income = 40000)
   10. T8 : (income = 39999), (income = 40000), (income = 40001)