



When running the algorithm logb for calculating the integer part of base b logarithm with inputs b=4 and n=25. 25 div 4 = 6 6 div 4 = 1 which of the following calculations are helpful? Select all and only the calculations that are both relevant to the algorithm trace and are correct. logb ((4, 25)  $3 25 \operatorname{div} 4 = 5$  $\sqrt{25}$  div 4 = 625 div 4 = 1 4 div 25 = 04 div 25 = 54 div 25 = 1 $\bigcirc$  6 div 4 = 15 div 4 = 11 4 div 4 = 1Week 2 Notes logb((b,n)) = greatest integer y so that b<sup>y</sup> is less than or equal to nCalculating integer part of base b logarithm **procedure** logb(b,n): positive integers with b>1) while n > b-1 | > 3 i := i + 1 $n := n \operatorname{div} b$ 

return i {i holds the integer part of the base b logarithm of n}