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      CS204: HW#6
   5. Page case M=n=1
        f(1,1)=5
        Z(1+11+1=5 V
                                    Umin st.
      Inductive case
       IH; f(m,n)= 2(m+n)+1 for (1/11/2 (m) (1/6))
                                      =) a71 or (a=1 and 671)(x)
        1) (a+1, 5)
           T-1) b=1
                = A>1 (*)
              f(a+1,b) = f(a,b)+2 (1 b=1 and a71)
                       = 2(a+b)+1+2 (:I.H.)
                        = 2((a+1)+b)+1
           1-21 6>1
               f(a+1,b)= f(a+1,b-1)+2.1
                       = f(a+1, b-2) + 2.2
                       = f(a+1, 1) + 2(6-1)
                        = f(a,1)+26
                        = 2(a+1)+1+26 (: I.H. (11)) = (a,1) = (a,5))
                        = 2(a+1)+6)+1 V
        (i) (a, b+1)
           11-11 6=0
               =) a71 (X)
               f(a_1b+1) = f(a-1,b+1)+2:1 (: b+1=1)
                        = 2(a-1+6+1)+1+2 (: IH (11) & (a-1, b+1) & (a,b)
                        = 2(a+(6+1))+1 V
            11-2) 670
                 f(a,b+1) = f(a,b) + 2 (:6+171)
                         = 2(a+6)+1+2 (-11H)
                         = 2(a+(bf1)+1 V
          111) (att, b+1)
            177-11 6=0
                 =) a>(x)
                f(a+1, b+1)=f(a, b+1)+2 (1) a+171 and b+1=1)
                          = f(a-1, b+1)+2.2 (: a71 and b+1=1)
                           = 2(a+b)+1+2.2, (: I.H. (1,1/5(a-1,6+1) = a,6
                           = 2((a+1)+(b+1))+1 \vee
                                                       =) Cout.
B. 2/4
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