1 Solution of 2

Algorithm 1 Optimising projects

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   function OPTIMAL(N, H)
      for $i \leftarrow 1$ to H **do**
         Optimal$[0][i] \leftarrow 0$
      end for
      for $i \leftarrow 1$ to N **do**
         Optimal$[i][0] \leftarrow 0$
      end for
      $id \leftarrow 1$
      for $n \leftarrow 1$ to H **do**
         for $h \leftarrow 1$ to N **do**
            Optimal$[n][h] \leftarrow \max_{i=0}^{N-1}(f_{id}[i] + \text{Optimal}[n-1][h-i])$
            Let the maximum be achieved for i
            Schedule Project id for time i
            $id \leftarrow id + 1$
         end for
      end for
   end function