1113-05-175 **Bruno Benedetti***, Department of Mathematics, University of Miami, Coral Gables, FL 33124, and **Frank H Lutz** and **Karim A Adiprasito**. *Optimal discrete Morse vectors are not unique.*

In classical Morse theory, for any given manifold there is always a unique optimal Morse vector (=the vector counting the number of critical points of index 0,1,..., up to the dimension). It turns out that in Forman's discrete version of Morse theory, this is no longer the case. I will sketch how to construct a contractible 3-complex on which the 'best' discrete Morse vectors are (1,0,1,1) and (1,1,1,0), because (1,0,0,0) is unreachable. (Received August 20, 2015)