

Cat and Mice (2017 North American Qualifier – NAQ):

<https://open.kattis.com/problems/catandmice>

Arup's solution is here:

<http://www.cs.ucf.edu/~dmarino/progcontests/mysols/collegeother/naq/2017/catandmice.java>

You binary search the initial velocity, and given an initial velocity, you run the DP. Pre-computing the distances saves some time.