Problem 6 (due Monday, April 24)

Non-negative integers  $d_i$ ,  $i\ \ bZ$ , satisfy the following condition:  $d_k=|{i<k: d_i+i\geq k}|$  for every integer k. Prove that there is a positive integer n such that  $d_k\in A$ , in n-1,n,  $\ell \in A$ .

Only one solution was submitted, by Prof. Vladislav Kargin. His solution is different from our original solution. For details see the following link Solution.

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