Problem 4 (due Monday, March 31)

A sequence \$a 1,a 2,\ldots\$ of real numbers has the following properties:

(i)  $|a_1+a_2+| + a_k| \le 1$  for every k;

(ii)  $|a_k-a_{k-1}|\leq 1/k$  for every  $k\leq 2$ .

We received a solution from Josiah Moltz and Dr Mathew Wolak. For detailed solutions see the following link Solution.

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