Mini HW #9

Due Time: 2016/12/22 (Thu.) 14:20 Contact TAs: ada01@csie.ntu.edu.tw

Problem 1

We design a dynamic array which doubles its capacity when inserting into a full array. Therefore, if we perform a sequence of insertions from size 0, the cost of the ith insertion is i if i is an exact power of 2, and 1 otherwise. Please calculate the amortized cost per insertion.