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i)
$$N_a(t) = \sum_{k=0}^{\infty} \frac{1}{2x_k} + \frac{1}{3}$$

Since the recuseout,

 $\lim_{k \to \infty} N_a(t) = \lim_{k \to \infty} \frac{1}{3} + \frac{1}{3} = \lim_{k \to \infty} \frac{1}{3} + \frac{1}{3} = \lim_{k \to \infty} \frac$