$Zad.3 \quad f(n) = (n+1)^n$ $g(n) = m^n$ $\lim_{n \to \infty} \frac{f(n)}{g(n)} = \lim_{m \to \infty} \left(\frac{m+1}{n}\right)^n = \lim_{n \to \infty} \left(1+\frac{1}{n}\right)^m = e \neq 0$ $\lim_{n \to \infty} \frac{g(n)}{f(n)} = \lim_{n \to \infty} \left(\frac{m}{n+1}\right)^n = \lim_{n \to \infty} \left(1+\frac{1}{n}\right)^n = e \neq 0$

Ne istricja talie and zely dle praie wydich n cni min s dni Zado Romiga ex u sozovy Taylan w a=0:

$$e^{x} = \sum_{m=0}^{\infty} \frac{x^{m}}{m!}$$

$$e^{4m} = 1 + \frac{1}{m} + \frac{1}{2m^{2}} + \frac{1}{6m^{3}} + \frac{1}{24m^{2}} + \cdots = 0$$

Zad. 7 W najgornym pryadlu w 1. itejagi min. bedrie na keniau jupraga to n spe W Kolejum Vrolu penyistycnie n.1 sprawdren ita.

Ogólnie pesquistylie zajme n+(n-1)+(n-2)+...+1 spravoleni:

$$\frac{m \cdot (m-1)}{2} = O(m^2)$$