... 
$$(1+\frac{x^2}{2!}+\frac{x^4}{4!}+...)=\frac{1}{2}(e^x+e^x)$$

... 
$$(x+\frac{x^{5}}{8!}+\frac{x^{5}}{5!}+...)=\frac{1}{2}(e^{x}-e^{x})$$

$$G(x) = \frac{1}{2} (e^{x} - e^{-x}) \cdot \frac{1}{2} (e^{x} + e^{-x}) e^{3x}$$

$$= \frac{1}{4} (e^{5x} - e^{x})$$

$$= a_n = \frac{1}{4} (e^{5x} - e^{x})$$

$$a_n = \frac{4}{4}(5^n - 1)$$

5/10=3 概

2) Problem involving catalon numbers. One person must return the body before another one borrous it. Therefore,