五边形数
$$\varphi(x)=\prod_{i=1}^n (1-x^i)=\sum_{i=-\infty}^{+\infty} (-1)^i x^{\frac{i(3i+1)}{2}}$$
 (只有前 \sqrt{n} 项有值)
$$\frac{1}{\varphi(x)}=\sum_{i=0}^{\infty} p(i)x^i=\prod_{i=1}^{\infty} \frac{1}{1-x^i}(p(i))$$
的拆分数)
$$(\frac{1}{1-x})^k=\sum_{i=0}^{\infty} C^i_{k+i-1}x^i$$
 约数个数 $d(ab)=\sum_{i|a}\sum_{j|b}[gcd(i,j)==1]$

d(i)表示i二进制位的奇偶,偶0奇1

$$FWT_i(A) = \sum_j (-1)^{d(i\&j)} A_j = \sum_{d(i\&j)=0} A_j - \sum_{d(i\&j)=1} A_j$$

二项式反演
$$g(n)=\sum_{i=0}^n C_n^i f(i)<=>f(n)=\sum_{i=0}^n (-1)^{n-i}C_n^i g(i)$$
 $g(n)=\sum_{i=0}^N C_i^n f(i)<=>f(n)=\sum_{i=0}^N (-1)^{i-n}C_i^n g(i)$