問題: 総定-數為n, 非第nth 个 ugly number 其中: ugly number 定義為具 2.3.5 之質因數之數,且含有1 idea. 含 Dn 為 第 n î ugly number  $D_{n} = \langle 1 | \text{if } n = 1 \\ min \{ 2D_{\frac{n}{2}}, 3D_{\frac{n}{3}}, 5D_{\frac{n}{2}} \}$ D.- 1 D.= 2 B=3 Da= 4

Algorithm: Vgly\_Num(n) 1. Let All,..., n7 be a new array A[O] =/ i2= i3 = i5 = 0

> next\_mul\_2 = A[i2]x2 next\_mul\_9 = A[23] × 3  $next_mul_5 = A[i5] \times 5$

for i= 1 to n-1

hext-ugly-num = min(next-mul-2, next-mul-3, next-mul-5)

ugly [i] = next\_ugly\_num