hw4 PB21111733 牛床源、 P265 算法10.6. (1) O(n/p)

(1)
$$O(n/p)$$

(2) (2-1) $O(1)$
 V (2-2) $O(n/p)$
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(3)
$$O(n/p)$$

 $T = n^3/p + (t_s + nt_w) n log p$
 $O(n^3/p)$

P309 11.5

Regin

(1) for
$$k=0$$
 to $n-1$ do

$$C_{k} = \alpha_{k}$$
end for

(2) for $h=\log(n-1)$ to 0 do

(2.1)
$$p=2^h$$
(2.2) $q=n/P_{9/2}$
(2.3) $z=w$
(2.4) for $k=0$ to $n-1$ do

if $(k \mod p=k \mod (2p))$ then

temp= c_k
(i) $c_k=c_k+c_{k+p}$
(ii) $c_{k+p}=(temp-c_{k+p})*z \pmod p$

end if

end for

for $k=1$ to $n-1$ do

 $b_{r(k)}=c_k/n$

end for

