## 1. Teopena 05 ogenne bjennenn coprupation, ucuosogyorgua copatineme commentous

Veop.

B agener augrae modois anopusur copsupation copsupation copsupation de n- encre copsupations anomalies de normalistes d

cpabnenne siementob, non 2000 ne ucuoltsiem cannyo uz Engrendo Cryntypy

## Don-bo:

Copyripature opatienne - 200 gepatio. B neu youann birognaist Onepaisur opatinenne sumentat, peopaer - nepersoger mengy coertainerne anopurous, a microsium - nonembre nepersonation summentation

Dox- 75,200 Bucora ranoro gepeber - 200 12 (ulogn)

Tenero gonamen, iso ghournor gurdo c'he metter, ren n! mashim  $\leq (1:2)$  = uneer mydung  $\Omega$  (n  $\log$ n)

ghournoe gepebo

bestcorot h uneer

ne donee ren  $2^h$  matoeb  $\Rightarrow$ 7

uneem nepalametho  $n! \leq l \leq 2n$ , 1(1:3:2) 1(3:1:27) 1(3:3:2) 1(3:

h=logen!=loge1+loge2+...+logen = 2 loge(2) = 1 (logen-1) = 12 (n logn) =>

gre modoro anopique coabrerus cym ravae repersons bre, na novopor

f(n) e O(g(n)) - acumnomement bepanne spanninge 7 c70, 4n=no: 0 = f(n) = c.g(n) f(n) e Il (g(n)) - acummontarecum mirare spenninga 7000, th >no: 0 = e.g(n) = f(n) flu) e Q(g(n))-acumnosu-ream vornae reaming FC170 Huzno:  $0 \le c_1g(n) \le f(n) \le c_2g(n)$ Bridopha - O(n2) Myzurpen - O(n2) Curame - O(n logn) bucipare + O(nlogn) Mensa - O(n 43) Ragix - O(n+k) Muperengaisna - O(n - log n) Mogereson - O(n+k)