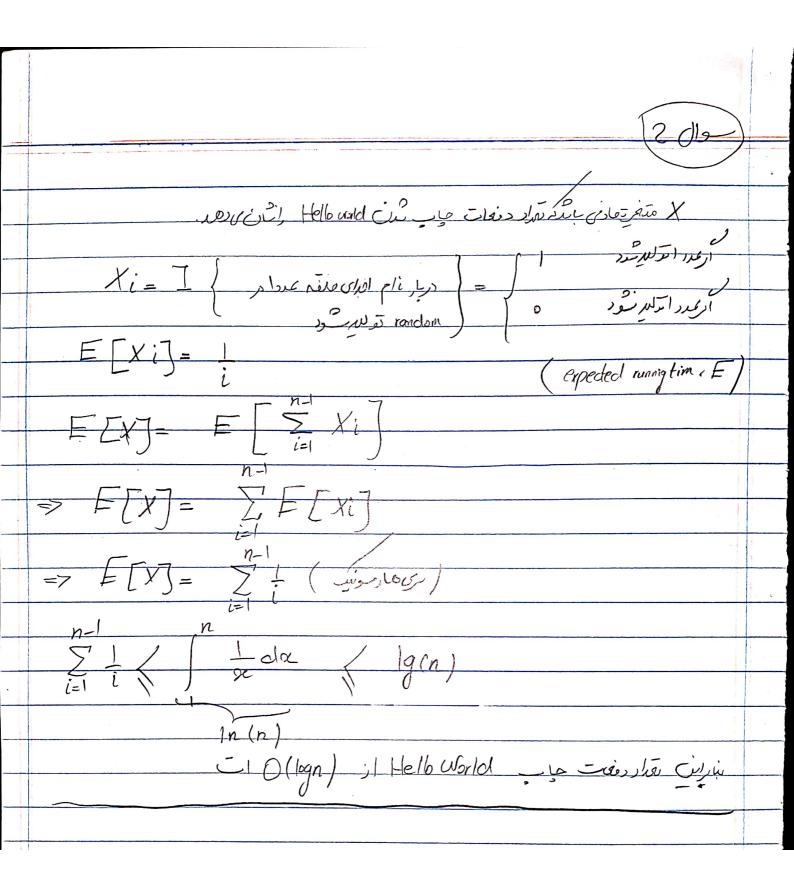
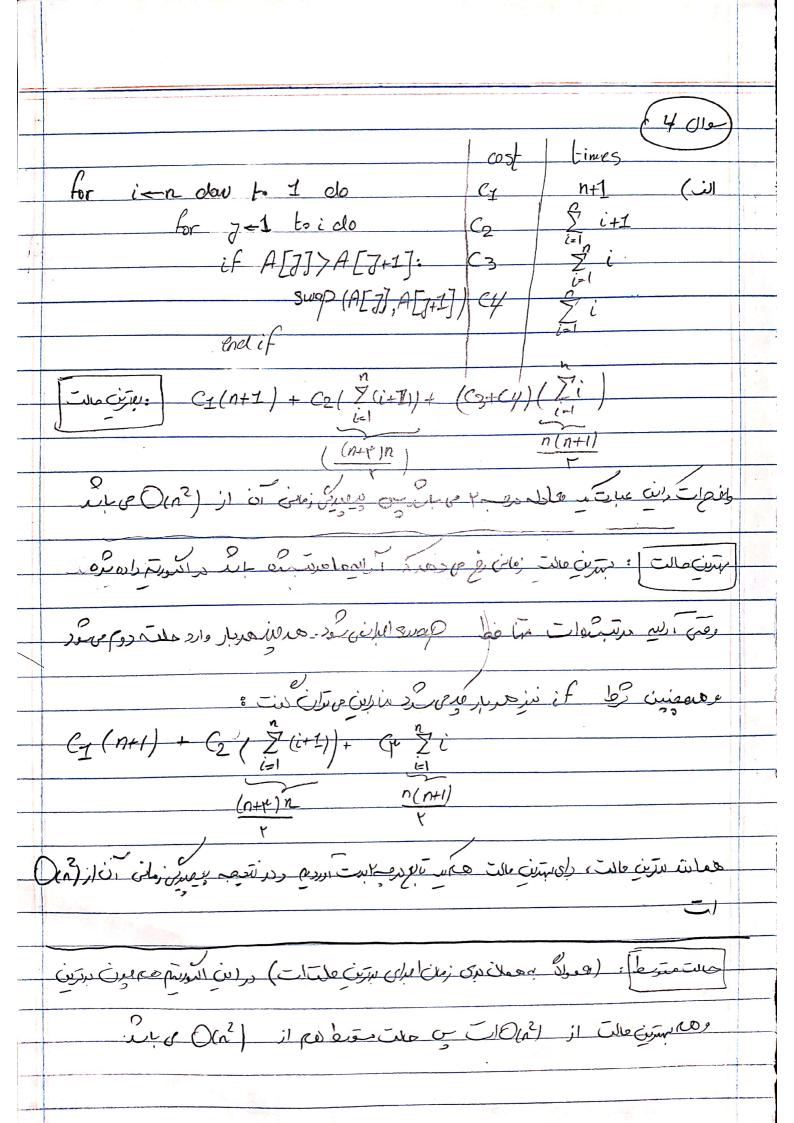
```
آرت وی _ ساره دانیون :
                      991/1040
 for (int i=0; i(n; i++){ c1 n+1
  while (A[i] != B[K]) { c4
                            ∑ (Z+I)
Z=|
   Swap (B[i], B[K]) <5/p>

\frac{T(n) = CI(n+1) + (C2+C3+C6+C7)n + C4\sum (Z+1) + Z=1}{C5(\sum Z)} \frac{(n+3)(n)}{2}

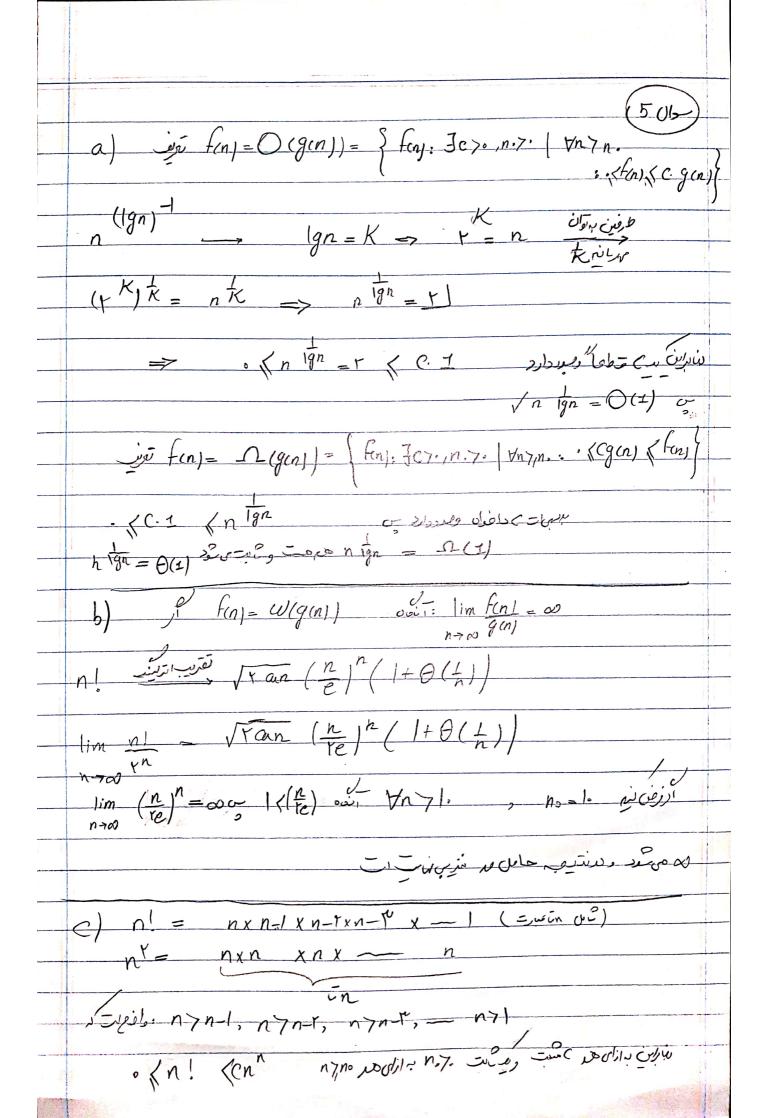
\Rightarrow T(n) = n(C1+C2+C3+Cb+C7+C5, \frac{r}{2}C4) + n(C4+C5) + C1
  \Rightarrow Tor) = O(n^2) (worst case)
hest case: T(n) = O(n)
A=[1,2,3] | Now chil A=[1,2,3] : Cop inginal whim
B=[3,1,2] B=[1,2,3]
```

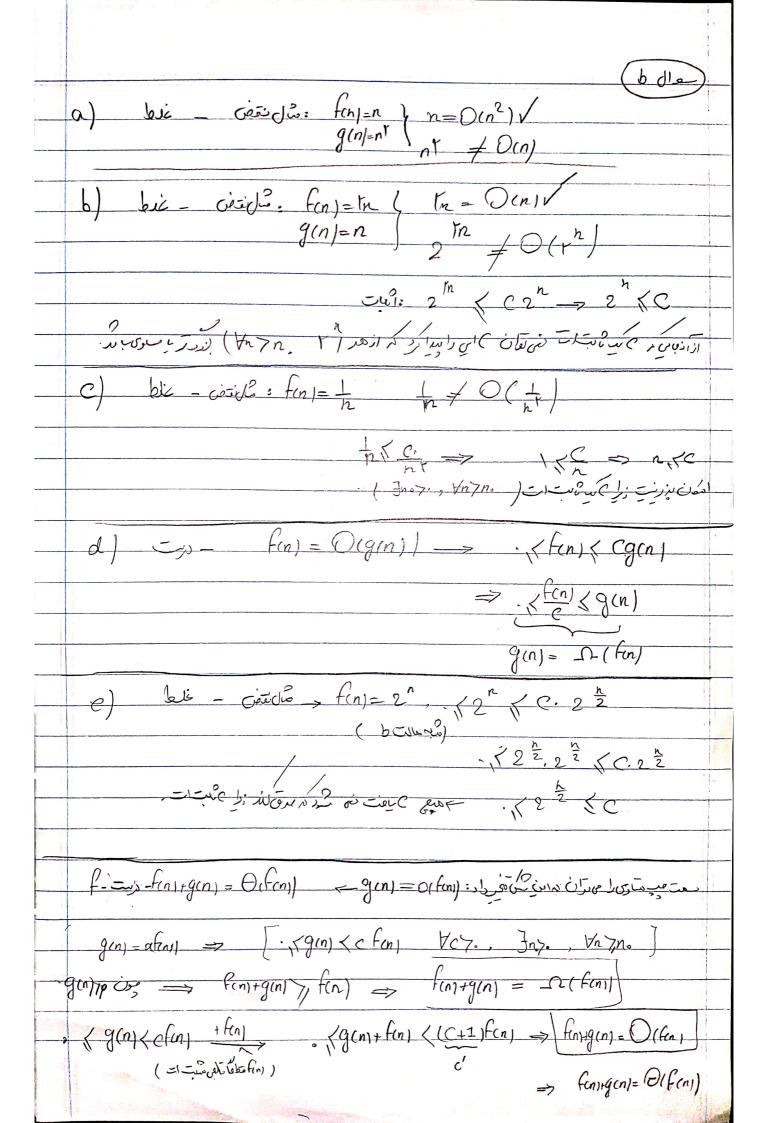


		3 010					
	cost	times					
i = 0	CI	1					
while i <n< td=""><td>c2</td><td>n+1</td></n<>	c2	n+1					
	C3	2					
if (Key== T[i]) return i	C4	1					
else	C5	ا دربرین مالت این عفر					
$i \leftarrow i + 1$	Ch	0-1 - 11 401 7					
		The state of the s					
Ten/= CI+ C2(n+1)+	C2 (n)	+ (1 + ((-+(1)/21)					
$= (C_2 + C_3 + C_5 + C_6)n + C_1 + C_4 - C_5 - C_6$							
=> Tinj= Qinj	v j						
Start Doint = 0	field it	visil bisans search it					
start Point - 0	200	Jack II ( 2 )					
end Point arr. length-1							
check Num - 0							
while ( start Point <= end Po							
Check Num < Start	/	Paint-start Daint ) 10					
if ( Key == arr Ticheck	num + i - ind	ex) / orcleast 71					
if ( Key == arr [icheck num + i-index ) 1- arr length])  return (check num + i-index) 1- arr length							
elso if (Key Las	re Techeckali	mti-index) / arr.length])					
end point = 0	ber Valum =	1					
- ISO	nee y with						
start Point	aherk Nijay	1					
J. Man Jim C	CHECK VIMINA						
Narsh was now official							
Merse sur service		الر بررس مال ۱۲٫۵ مورد طراری صفاح					
-1 K-lan 1 n-1							
$\exists  \mathcal{K}= gn  \leq \frac{n}{rR} = 1$	- (1/2) -	عول باره نعد مارين مرسر					
	2	2					
	nice	O(1gn) i) Dun 2					



	(·) 4010~01	
1	for i en down to I do	
Automotion - company	flage of to i do	
	for jet to i do  if A[J] 7 A[J+1]:	
	Flag = 1 Swap (A [], A []+1]) end if	
	if (flag == 1) =	
	break	
	viasion tues object flag in inschie	
	so break comando os por ala ali a light	,
	9	
	در ان سابع ( به مین عالت ) بیمیس زمنی (زریت (۱۹) حی دو.	





	A	B	0	0	Λ	W	Θ	
-	nr	nr	Yes	yes	no	_no	no	-
	tg K	n €	yes	yes	NO	no	no	
The state of the s	nK	C	yes -	yes_	no	ทอ	no	
	2 <sup>n</sup>	2	no	20	Jes	Jes	NO	
	21gn	2 h	yes	No	yes	YNO	yes -	
	n!	h. 2 <sup>n</sup>	No	no	yes	yes	no	
	lg(lg(a))	( 1g(n))	yes	no	yes	no	yes	
	n lyn	(Ign)2	no	no	Jes	yes	no	_
	nr Togn	n (1gn)2	no	no	yes	yes	ro	
	$n \frac{1}{n}$	1gn	yes	yes	no	no	no	
-	1				-			_