

程序代写代做 CS编程辅导



COMT-3319 Web Data Compression and Search

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BWT revisit
Email: tutorcs@163.com

Backward Search overview
QQ: 749389476

<https://tutorcs.com>

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Example using C[] & Occ[]



Position	Symbol	Count
0	B	0
1	N	0
2	N	1
3	[0
4	A	0
5	A	1
6]	0
7	A	2

Symbol	# LessThan
A	0
B	3
N	4
[6
]	7

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7	A	2

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N	4
[6
]	7

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5	A	1
6]	0
7	A	2

Symbol	# Less Than
A	0
B	3
N	4
[6
]	7

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程序代写代做 CS编程辅导



Position	Symbol	Occ / Rank
0	B	
1	N	0
2	N	1
3	[0
4	A	1
5	A	1
6]	0
7	A	2

Occ / Rank

Symbol	# LessThan
A	0
B	3
N	4
[6
]	7

C[]

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C[] & Occ() 程序代写代做 CS编程辅导



Position	Symbol	Occurrence
0	B	
1	N	0
2	N	1
3	[0
4	A	1
5	A	1
6]	0
7	A	2

Occ(Symbol, Pos)
=> # Matching

Symbol	# LessThan
A	0
B	3
N	4
[6
]	7

C[Symbol] =>
(startPos, endPos)

程序代写 & 做CS编程辅导

$C[\text{Symbol}] \Rightarrow$
(startPos, endPos)



$\text{Occ}(\text{Symbol}, \text{Pos})$
 $\Rightarrow \# \text{ Matching}$

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Can these two functions (or tables) be implemented such that they can return the result in constant time ?

Yes, have a precomputed table.

Can they be precomputed efficiently ?

Yes, a single pass.

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Backward Search for ANA



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Backward Search for NAN

程序代写代做CS编程辅导



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Backward Search for ANA



Position	Symbol	Occurrence
0	B	
1	N	0
2	N	1
3	[0
4	A	0
5	A	1
6]	0
7	A	2

Occ(Symbol, Pos)
=> # Matching

Symbol	# Less Than
A	0
B	3
N	4
[6
]	7

C[Symbol] =>
(startPos, endPos)

Backward Search for NAN

程序代写代做CS编程辅导



Position	Symbol	Occurrence
0	B	
1	N	0
2	N	1
3	[0
4	A	1
5	A	1
6]	0
7	A	2

Occ(Symbol, Pos)
=> # Matching

Symbol	# LessThan
A	0
B	3
N	4
[6
]	7

C[Symbol] =>
(startPos, endPos)

Why not Forward Search: ANA



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Assignment 2 overview & tips to start...

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```
[cs9319@vx09:~$ cd ~cs9319]
[cs9319@vx09:~/a2$ ls
ans          dummy.txt      medium1.bwt    medium2.rlb    small1.txt
autotest     helper         large2.bwt     medium1.rlb    medium2.txt    small2.bwt
dummy.bwt    large1.bwt     large2.rlb     medium1.txt    small1.bwt     small2.rlb
dummy.rlb    large1.rlb     large2.txt     medium2.bwt    small1.rlb     small2.txt
[cs9319@vx09:~/a2$ ls helper
a150.bwt    a20k.bwt    abcde.bwt    bsearch        README.txt    sample2.c
a150.rlb    a20k.rlb    abcde.rlb    makefile      sample1.c
cs9319@vx09:~/a2$
```

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程序代写代做 CS编程辅导



```
[cs9319@vx11:~/a2$ more
[1]ban[2]banana[3]band[4]bandana[5]bin[6]bind[7]binding
[cs9319@vx11:~/a2$ more
[[[[[[[gnadend1234567ndbnbnb]]]]]]]nnnngnabbbdaiaaiaii
[cs9319@vx11:~/a2$ xxd -b small1.rlb
00000000: 01011011 10000100 01100110 01100001 01100100 [.gnad
00000006: 01100101 01101110 01100100 00110001 00110010 00110011 end123
0000000c: 00110100 00110101 00110110 00110111 01101110 01100100 4567nd
00000012: 01100010 01101110 01100010 10000000 01011101 10000100 bnb.].
00000018: 01101110 10000001 01100111 01101110 01100001 01100010 n.gnab
0000001e: 10000000 01100100 01100001 01101001 01100001 10000000 .daia.
00000024: 01101001 01100001 01101001 01101001
cs9319@vx11:~/a2$
```

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BSEARCH

To help you to check your correctness, a sample search program called "bsearch" that produces the same search results required by this assignment is provided. It does NOT read a RLB and requires the original TXT file, but you can still use it to verify your search results. To use it, simply use the TXT file and the search term as input arguments, e.g.,:

```
cs9319@vx05:~$ ~cs9319/a2/helper/bsearch ~cs9319/a2/dummy.txt "in"
[8]Computers in industry
[11]Big data indexing
cs9319@vx05:~$
```

SAMPLE C FILES & MAKEFILE

There are two versions of the same program - to print a binary RLB file to stdout in a human readable way.

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```

-rwxr-xr-x 1 cs9319 cs9319 1243 Jun 26 20:23 autotest
-rw-r--r-- 1 cs9319 cs9319 79 Jun 22 23:37 dummy.bwt
-rw-r--r-- 1 cs9319 cs9319 75 Jun 22 23:37 dummy.rlb
-rw-r--r-- 1 cs9319 cs9319 79 Jun 22 23:37 dummy.txt
drwxr-xr-x 2 cs9319 cs9319 187 Jun 26 18:17 helper
-rw-r--r-- 1 cs9319 cs9319 5248054 Jun 22 23:30 large1.bwt
-rw-r--r-- 1 cs9319 cs9319 7533413 Jun 22 23:30 large1.rlb
-rw-r--r-- 1 cs9319 cs9319 5248054 Jun 22 23:30 large1.txt
-rw-r--r-- 1 cs9319 cs9319 154918559 Jun 22 23:30 large2.bwt
-rw-r--r-- 1 cs9319 cs9319 77233608 Jun 22 23:30 large2.rlb
-rw-r--r-- 1 cs9319 cs9319 154918559 Jun 22 23:30 large2.txt
-rw-r--r-- 1 cs9319 cs9319 193594 Jun 22 23:30 medium1.bwt
-rw-r--r-- 1 cs9319 cs9319 92530 Jun 22 23:30 medium1.rlb
-rw-r--r-- 1 cs9319 cs9319 193594 Jun 22 23:30 medium1.txt
-rw-r--r-- 1 cs9319 cs9319 1892615 Jun 22 23:30 medium2.bwt
-rw-r--r-- 1 cs9319 cs9319 835439 Jun 22 23:30 medium2.rlb
-rw-r--r-- 1 cs9319 cs9319 1892615 Jun 22 23:30 medium2.txt
-rw-r--r-- 1 cs9319 cs9319 40 Jun 22 23:29 small1.bwt
-rw-r--r-- 1 cs9319 cs9319 40 Jun 22 23:29 small1.rlb
-rw-r--r-- 1 cs9319 cs9319 55 Jun 22 23:29 small1.txt
-rw-r--r-- 1 cs9319 cs9319 25435 Jun 22 23:29 small2.bwt
-rw-r--r-- 1 cs9319 cs9319 17374 Jun 22 23:29 small2.rlb
-rw-r--r-- 1 cs9319 cs9319 25435 Jun 22 23:29 small2.txt
cs9319@vx09:~/a2$

```

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