【华工包打听说明】

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答案仅供参考,不保证正确。

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我们是华工包打听,由校内学生组建而成的校园自媒体立志成为陪伴华园学子度过漫长岁月的一盏灯



SCUT包打听(新



华工包打听



华工卫星站



包打听公众号

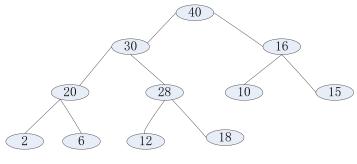


包打听QQ

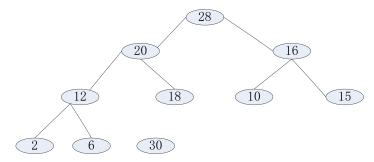
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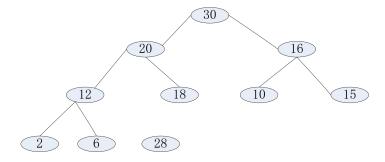
```
1. AAACC
             CBACB
2. Fill the blank with correct C++ codes:
                                             (16 scores)
(1)
int r = n;
              // I and r beyond array bounds
while (l+1 != r) { // Stop when I and r meet
  ____ int i= (l+r) /2____; // Look at middle of subarray
  if (K < array[i]) ___ r=i ___;
                                 // In left half
  if (K == array[i]) return i; // Found it
  // In right half
}
// K is not in array or the greatest value is less than K
if K> array[0] (or !!= -1) // the lest value in the array is greater than K with I updated
     return | ; // when K itself does not appear in the array
  else
          return ERROR; // the integer with the lest value greater than K
}
(2)In order to insert a new node s after the node which pointer q points to in a
circular doubly linked list, we need to execute the following statements:
s->prior=q;
s->next=q->next;
q->next->prior=s;
(3) The height of a complete binary tree with k nodes is \_\_\lceil \log_2(k+1) \rceil ____(1 node
tree has hight 1) (2 scores)
3.
Consider a list L containing n values. L has n(n-1)/2 distinct pairs of values, each of
    which could potentially be in a right order or bad order. In average, that is n(n-1)
   /4. We can therefore say that exchange sorts are \theta(n^2) in average amd worst case.
4.
1) \theta(n) 2) \theta(n^2) 3) \theta(n)
5.
1)
```



2)



3)

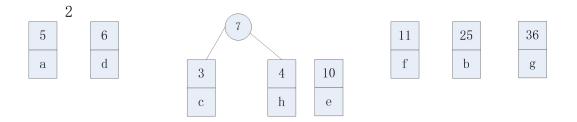


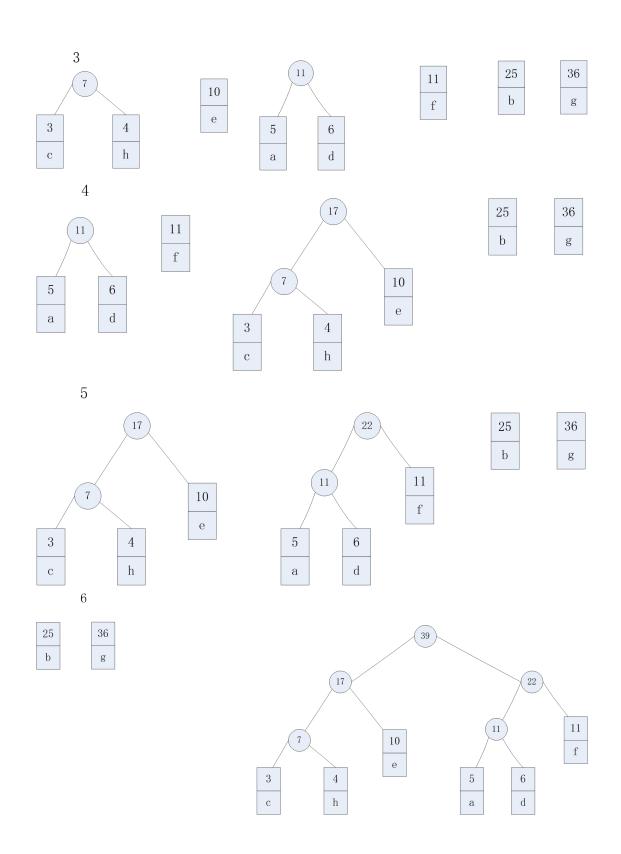
6.

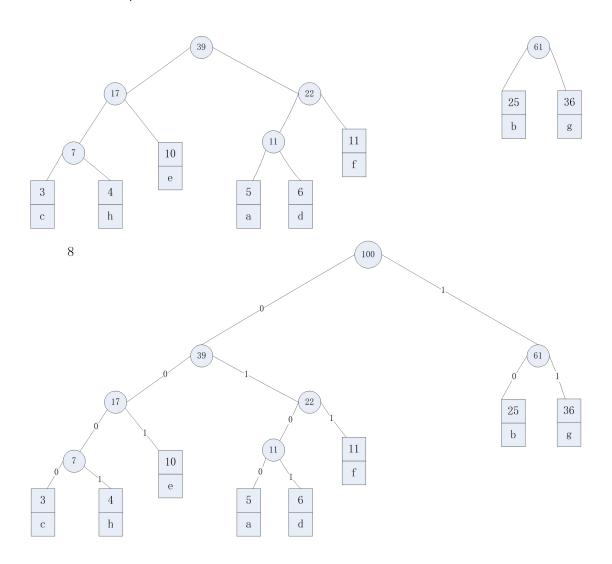
1) pictures

1

3	4	5	6	10	11	25	36	
с	h	а	d	е	f	b	g	







2) expected bit-length

$$[(3+4+5+6)\times4+(10+11)\times3+(25+36)\times2]\div100=2.57$$

3) advantage

Huffman code scheme saves text length in most cases.

1)
$$x = M / s$$

2)

$$:: 2M \bullet x^k = f$$

$$\therefore k = \log_x \frac{f}{2M} = \log_{\frac{M}{s}} \frac{f}{2M}$$

3)

Here
$$k = \log_{\frac{100}{10}} \frac{200000}{200} = \log_{10} \frac{2000}{2} = \log_{10} 1000 = 3$$
, which implies we need 3 passes.

In each pass, we need read
$$\frac{f}{s} = \frac{200000}{10} = 20000$$
 blocks.

To read a block, we have to access disk $\frac{s}{2} = \frac{10}{2} = 5$ times.

the times of reading disk is thus,

$$3 \times 20000 \times 5 = 3 \times 10^5$$

8.

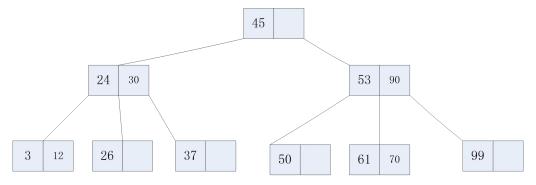
H1(22)=0, H1(41)=2, H1(53)=5, H1(46)=6, no conflict When H1(30)=2, H2(30)=1 (2+1*1) %11=3, so 30 enters the 3rd slot; H1(13)=6, H2(13)=2 (6+1*2)%11=8, so 13 enters the 8th slot; H1(1)=3, H2(1)=8 (3+5*8)%11=10 so 1 enters 10 (pass by 0, 8, 5, 2);

H1(67)=3, H2(67)=10 (3+2*10)%11=1 so 67 enters 1(pass by 2)

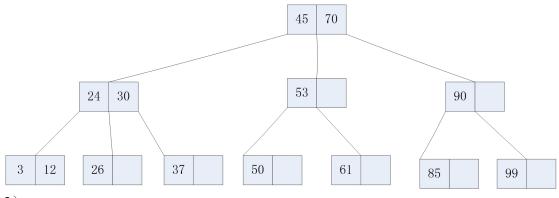
22	67	41	30		53	46		13		1
0	1	2	3	4	5	6	7	8	9	10

9.

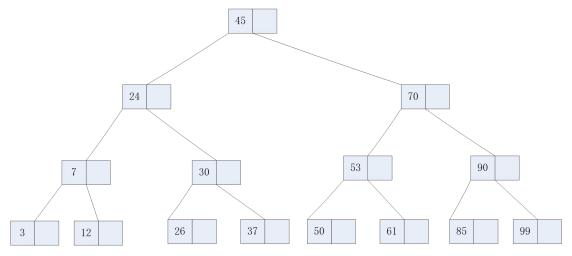
1)



2)



3)



10.

1) 1, 6, 5, 2, 3, 4

2)

