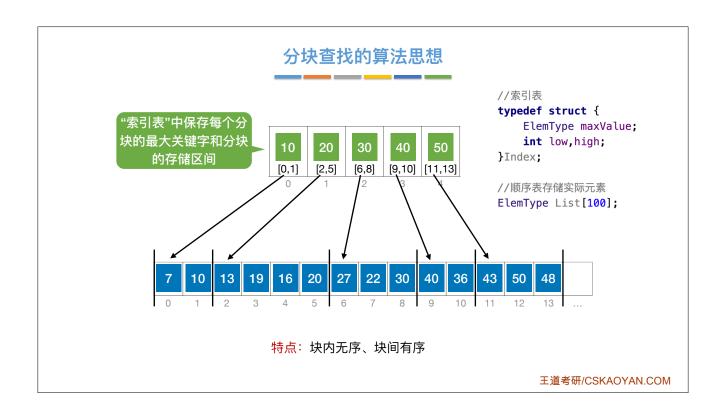
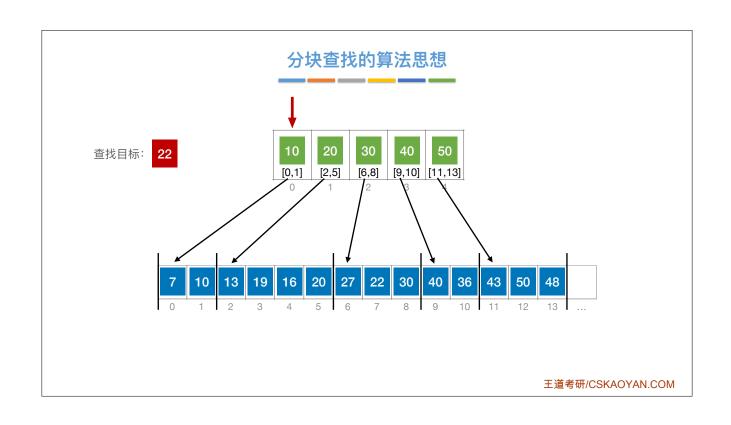
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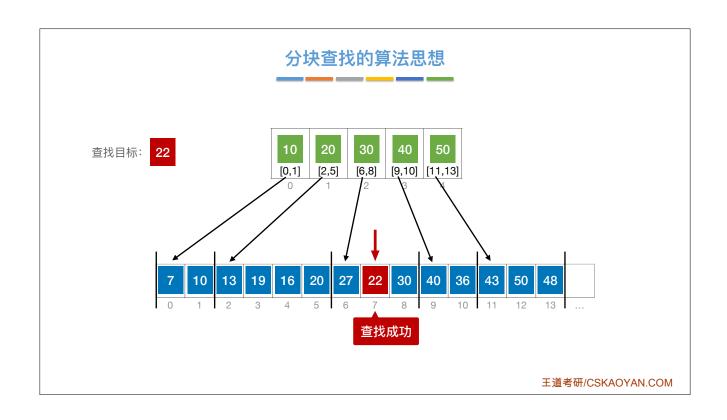
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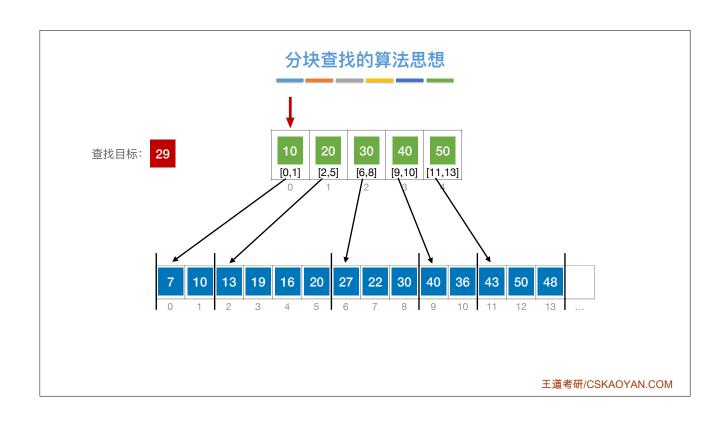
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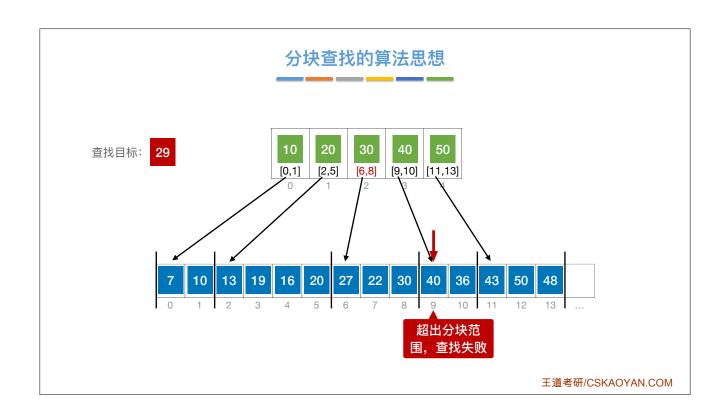
## 知识总览 算法思想 分块查找 查找效率分析 (ASL) 王道考研/CSKAOYAN.COM

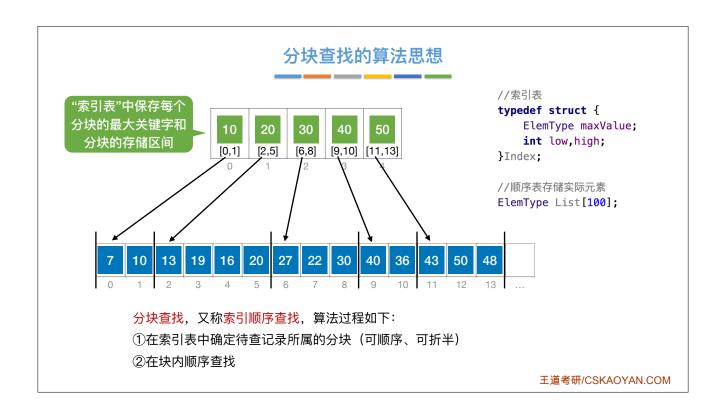


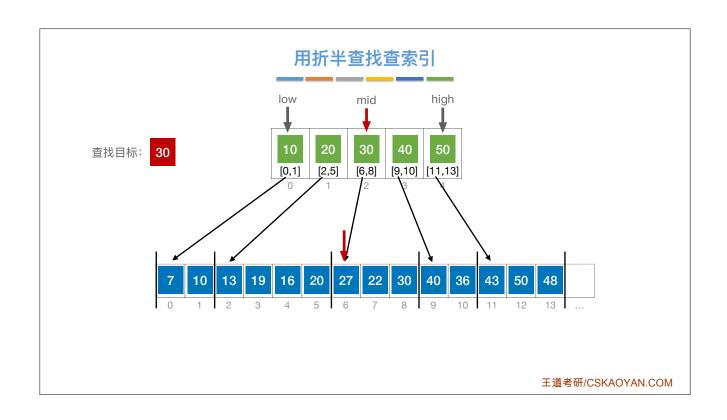


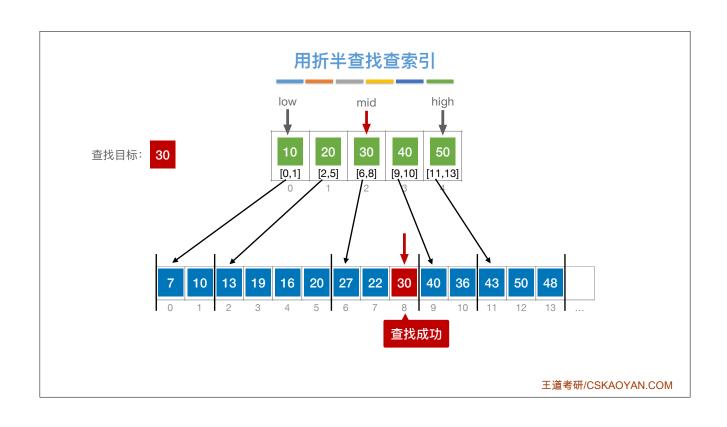


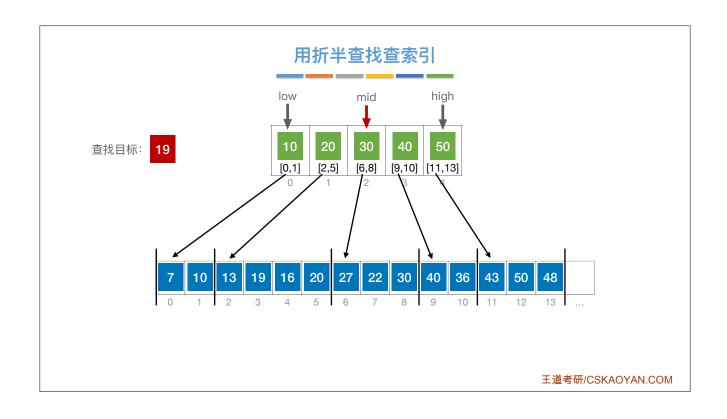


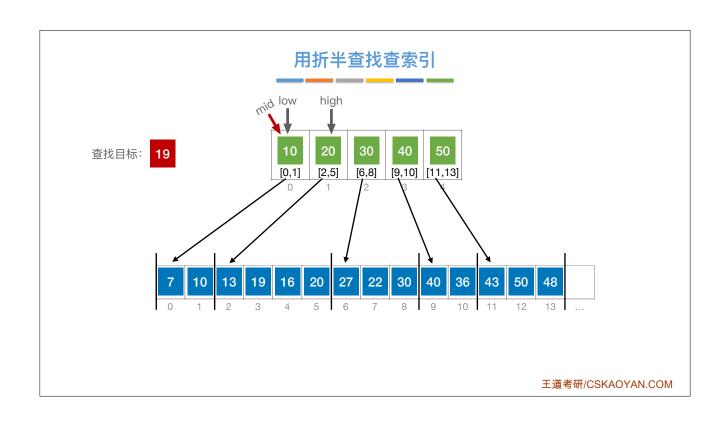


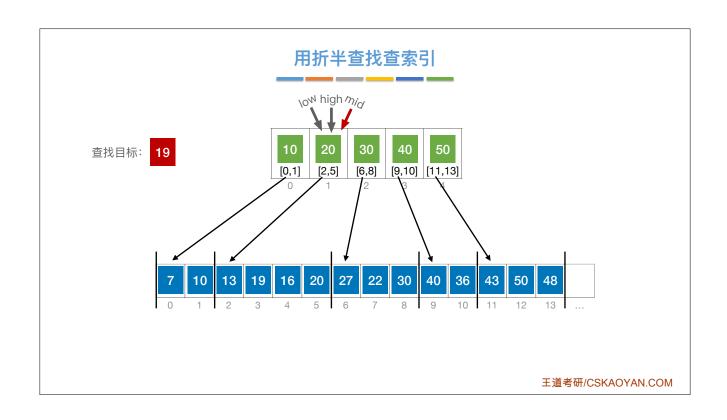


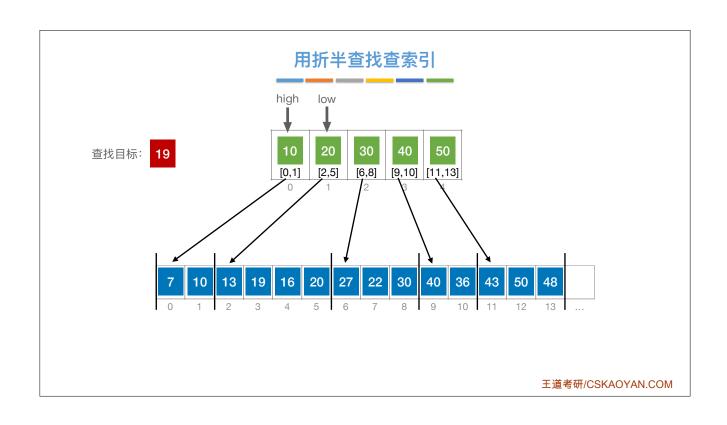


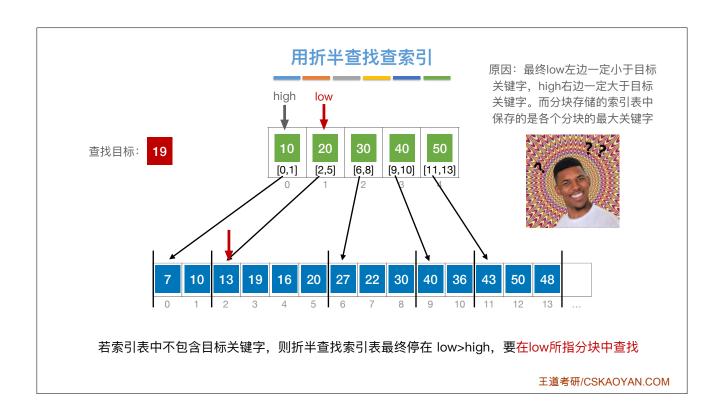


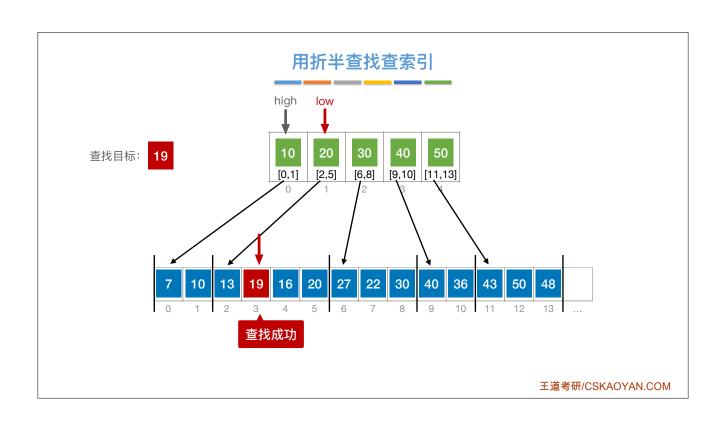


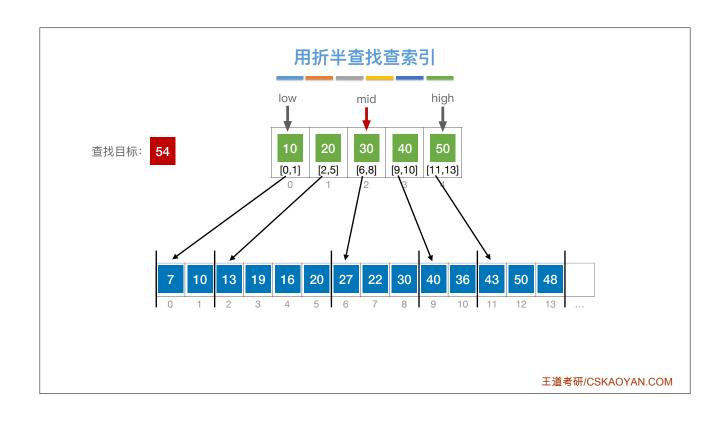


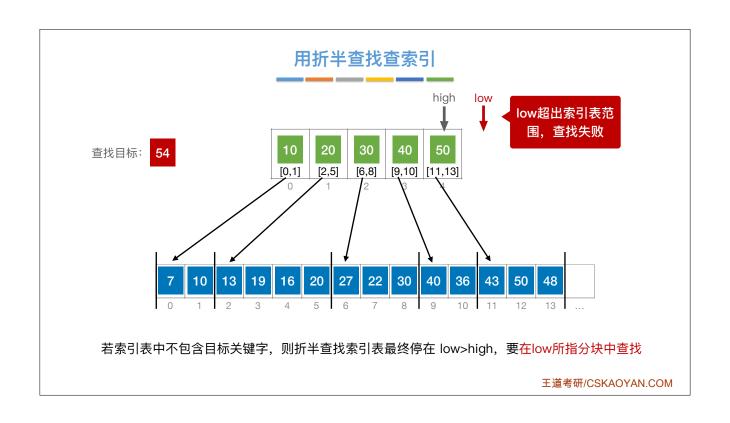


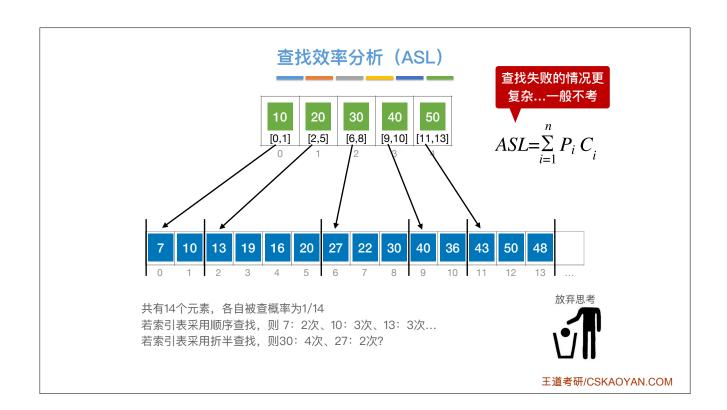


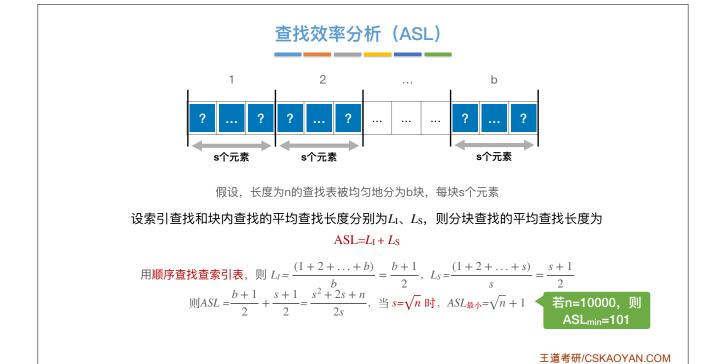




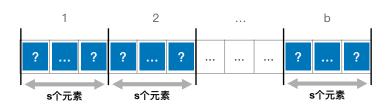








## 查找效率分析 (ASL)



假设,长度为n的查找表被均匀地分为b块,每块s个元素

设索引查找和块内查找的平均查找长度分别为 $L_{
m I}$ 、 $L_{
m S}$ ,则分块查找的平均查找长度为

$$ASL=L_I+L_S$$

用折半查找查索引表,则 
$$L_I = \lceil log_2(b+1) \rceil$$
,  $L_S = \frac{(1+2+\ldots+s)}{s} = \frac{s+1}{2}$  则  $ASL = \lceil log_2(b+1) \rceil + \frac{s+1}{2}$ 

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又称"索引顺序查找",数据分块存储,块内无序、块间有序

索引表中记录每个分块的最大关键字、分块的区间 算法思想 一 先查索引表(顺序或折半)、再对分块内进行顺序查找

ASL=查索引表的平均查找长度+查分块的平均查找长度

分块查找

设n个记录, 均匀分为 b 块, 每块 s 个记录

ASL

易错点

 $\overline{\phantom{a}}$ 

顺序查找索引表

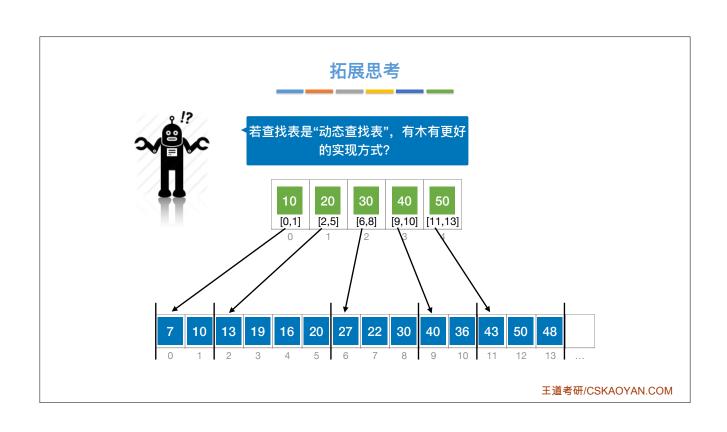
 $ASL = \frac{b+1}{2} + \frac{s+1}{2}$ 

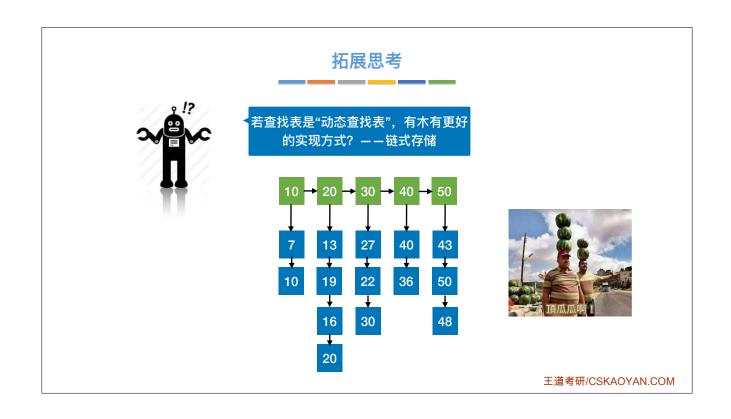
折半查找索引表 🕣

 $\stackrel{\text{def}}{=} s = \sqrt{n} \text{ lit}, \quad ASL_{\text{lit}/h} = \sqrt{n+1}$   $ASL = \lceil log_2(b+1) \rceil + \frac{s+1}{2}$ 

对索引表进行折半查找时,若索引表中不包含目标关键字,则折半查找最终停在 low>high,要在 low 所指分块中查找

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