





一台手机/电脑 有 4GB 内存,是什么意思?

是指该内存中可以存放 4*230 个字节。如果是按字节编址的话,也就是有 4*230 = 232 个"小房间"

这么多"小房间",需要 2³²个地址才能——标识,所以地址需要用 32 个二进制位来表示(0~ 2³²-1)

补充知识:

 2¹⁰ = 1K
 (千)

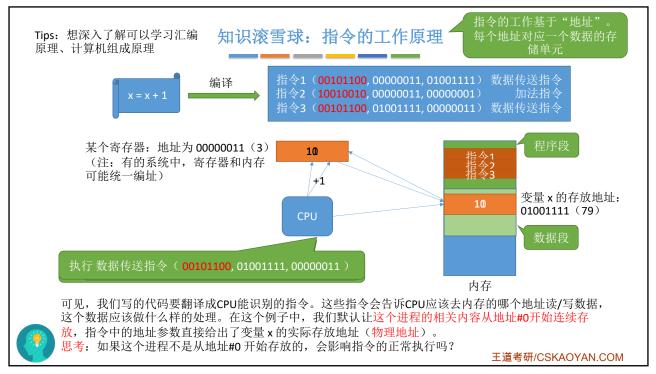
 2²⁰ = 1M
 (兆,百万)

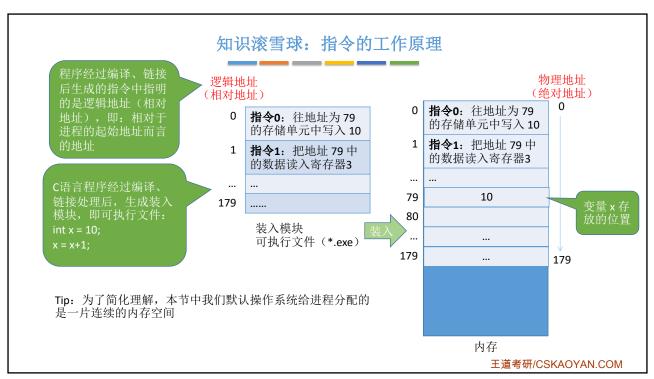
 2³⁰ = 1G
 (十亿,千兆)

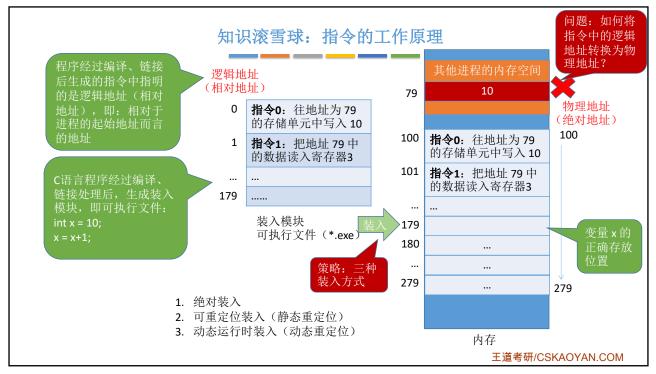
注:有的题目会告诉我们内存的大小,让我们确定地址长度应该是多少(即要多少个二进制位才能表示相应数目的存储单元)

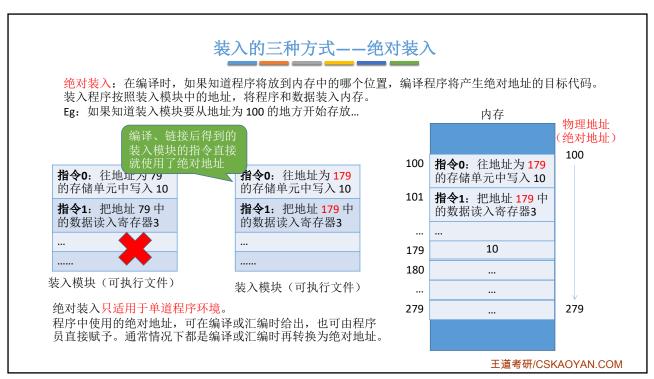
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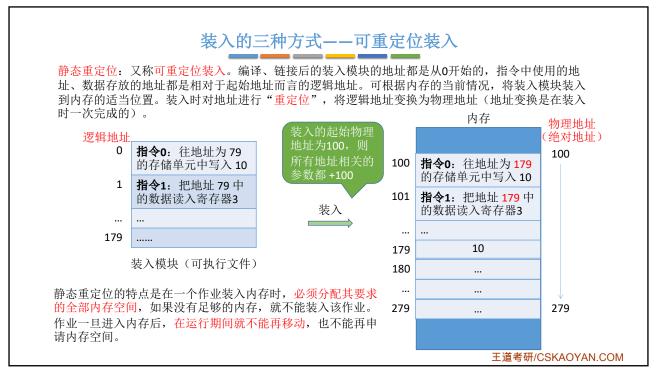
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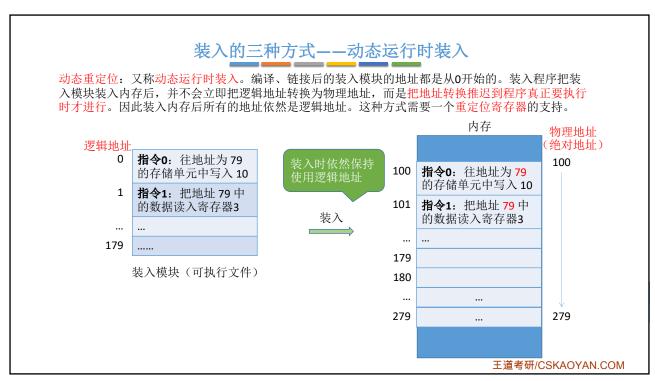


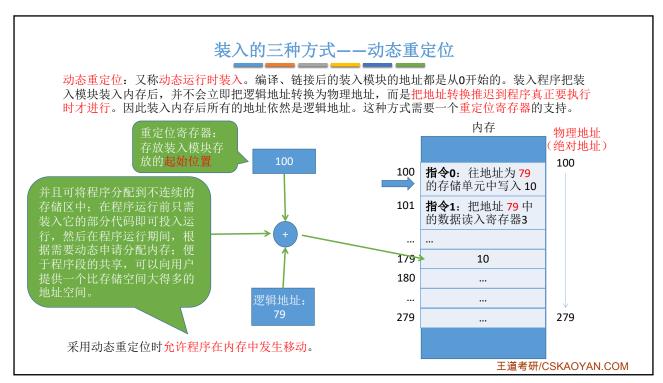


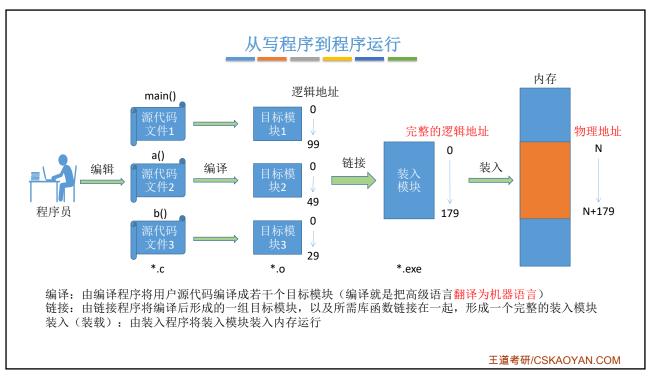


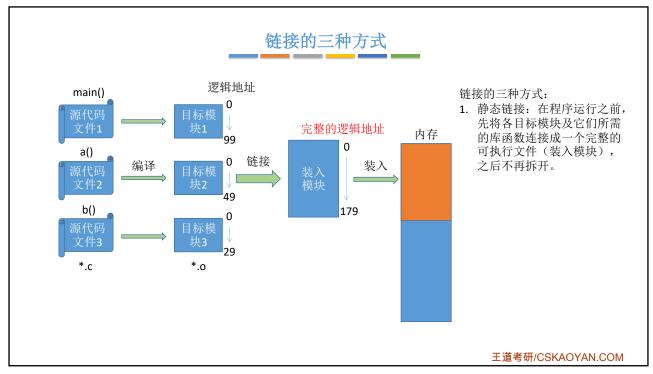


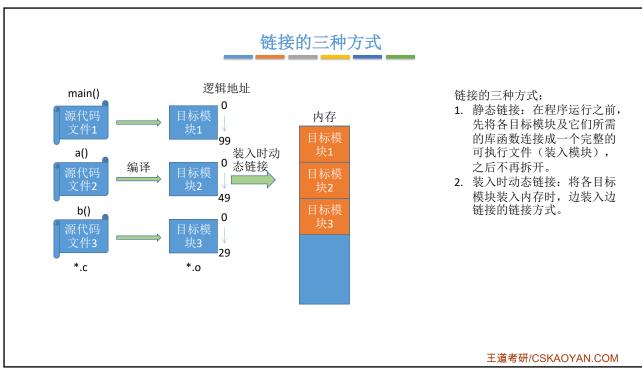


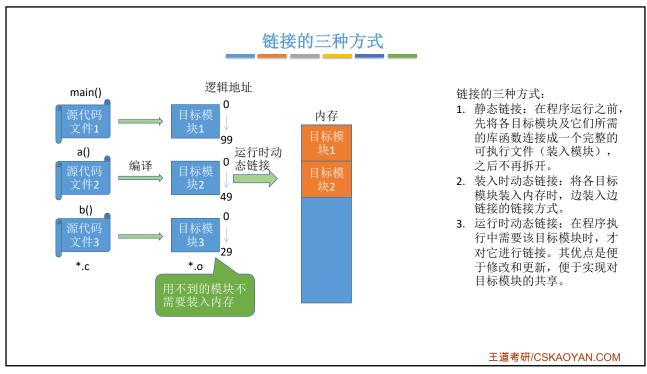


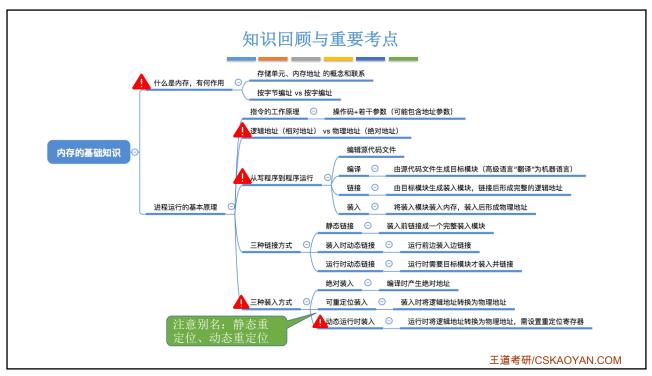














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