

要点总览



满足条件①、条件②

选择重传协议的窗口大小限制条件



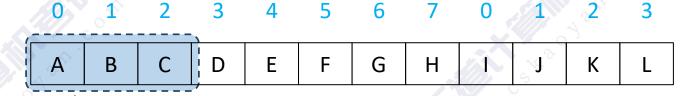


发送方

用 3bit 给帧编号







接收窗口 大小 W_R=3 选择重传协议的窗口大小需满足如下两个条件:

①若用n bit 给帧编号,W_T+W_R≤2ⁿ

 $2 W_R \le W_T$

满足<mark>条件①、条件②</mark>

选择重传协议的窗口大小限制条件



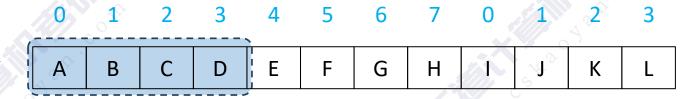


发送方

用 3bit 给帧编号







接收窗口 大小 W_R=4 选择重传协议的窗口大小需满足如下两个条件:

①若用n bit 给帧编号,W_T+W_R≤2ⁿ

 $2 W_R \le W_T$

不满足条件②

选择重传协议的窗口大小限制条件

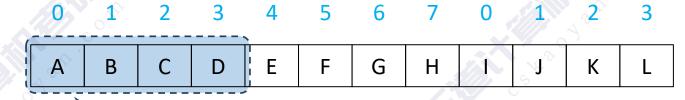


发送方

用 3bit 给帧编号







接收窗口 √小 W_R=4 选择重传协议的窗口大小需满足如下两个条件:

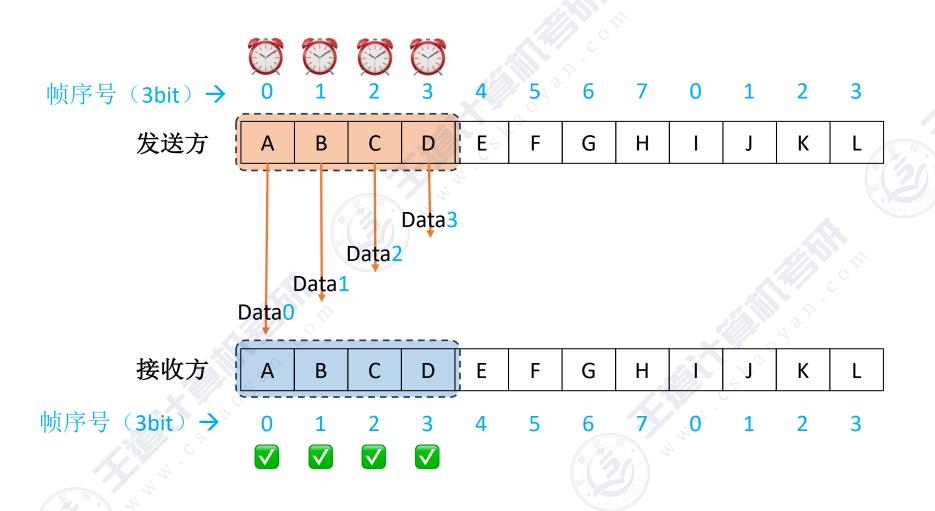
①若用n bit 给帧编号,W_T+W_R≤2ⁿ

 $2 W_R \le W_T$

选择重传协议(SR)



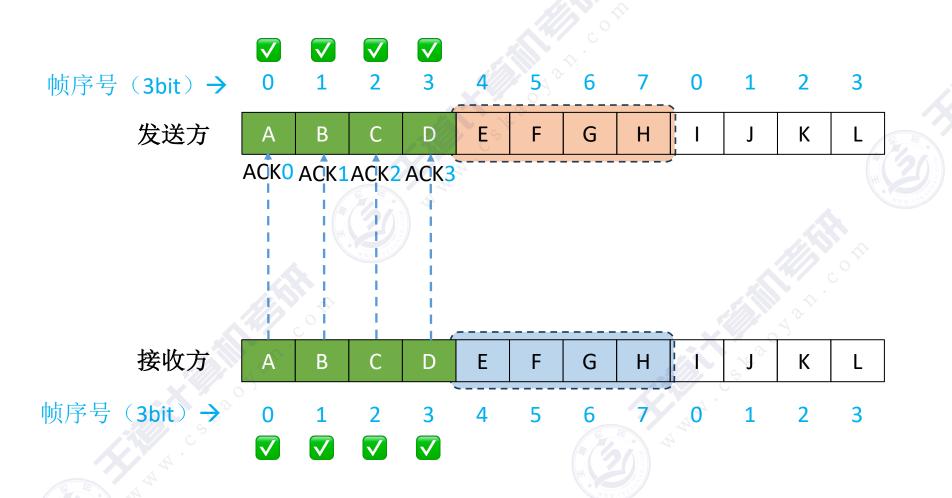
"正常"情况示例

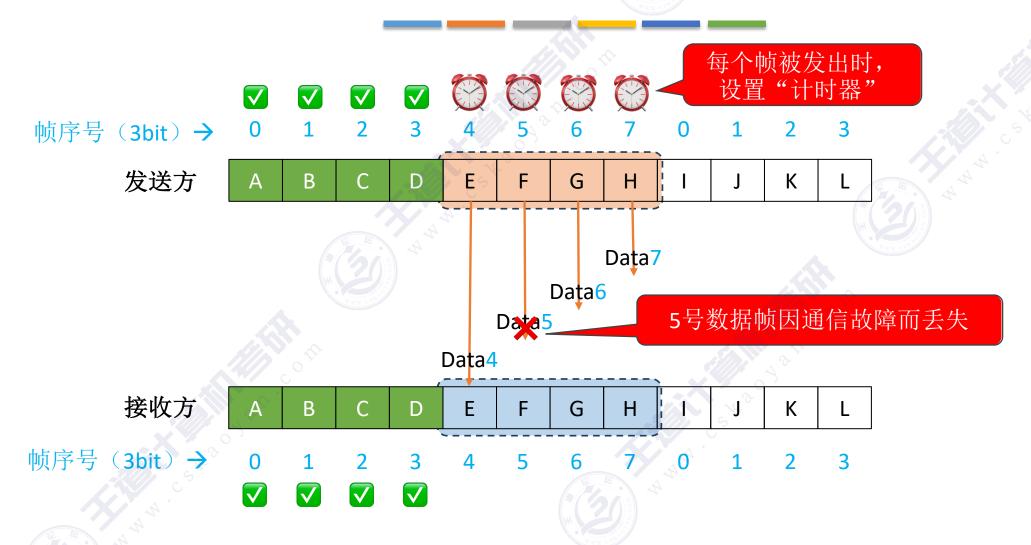


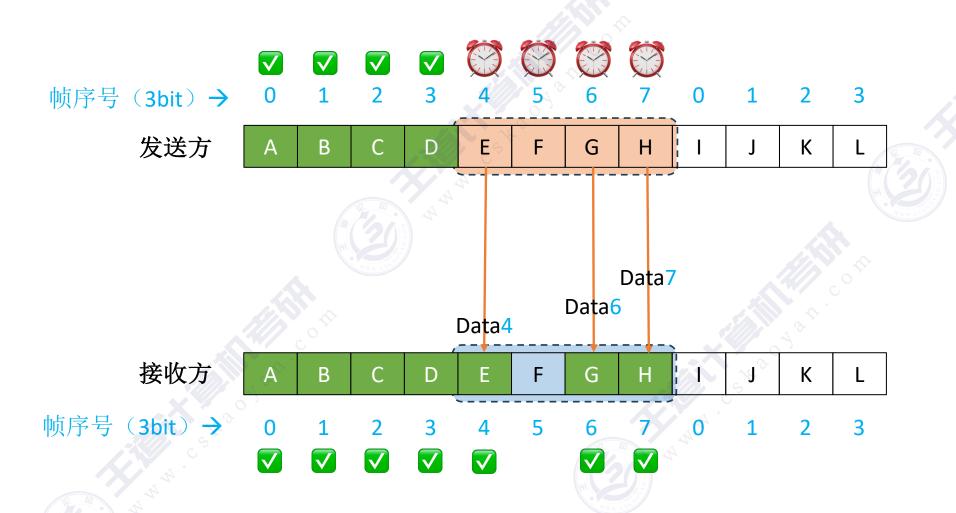
"正常"情况示例

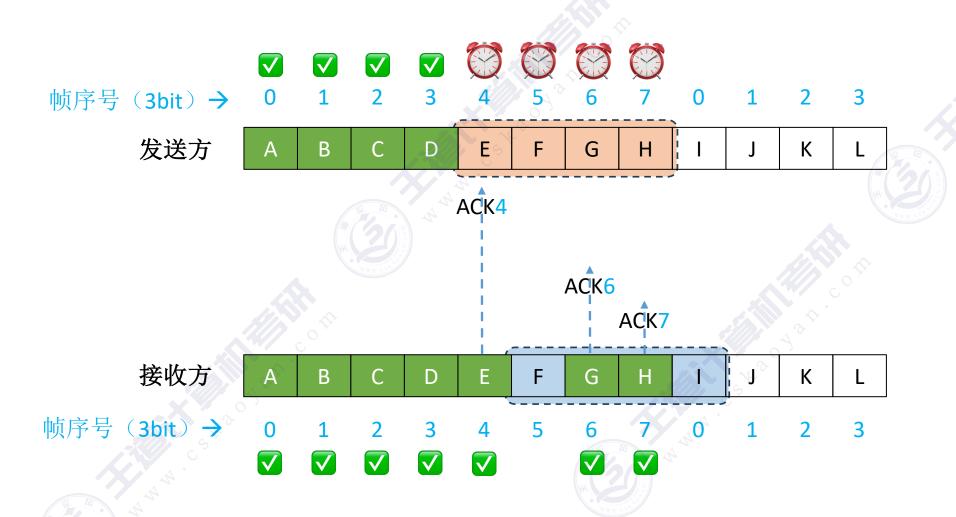


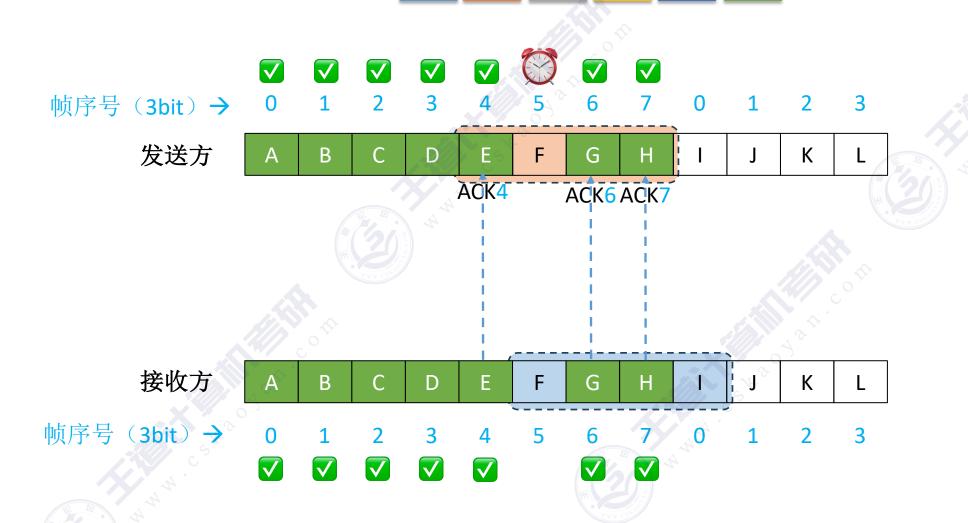
"正常"情况示例

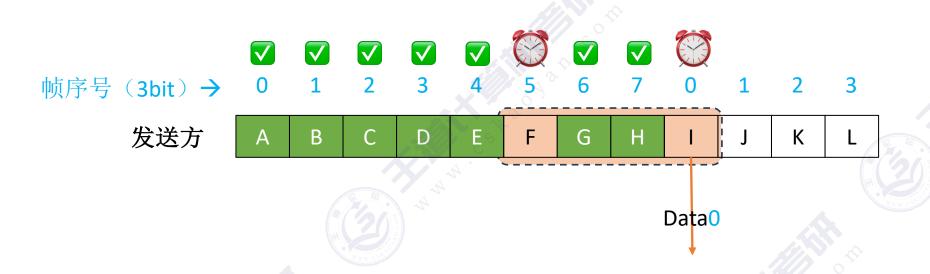




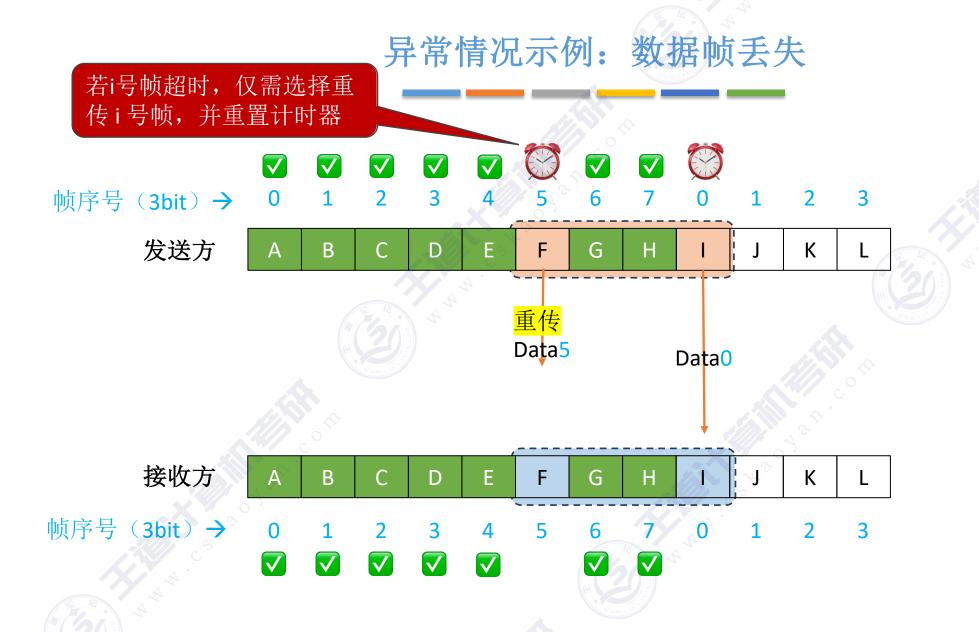


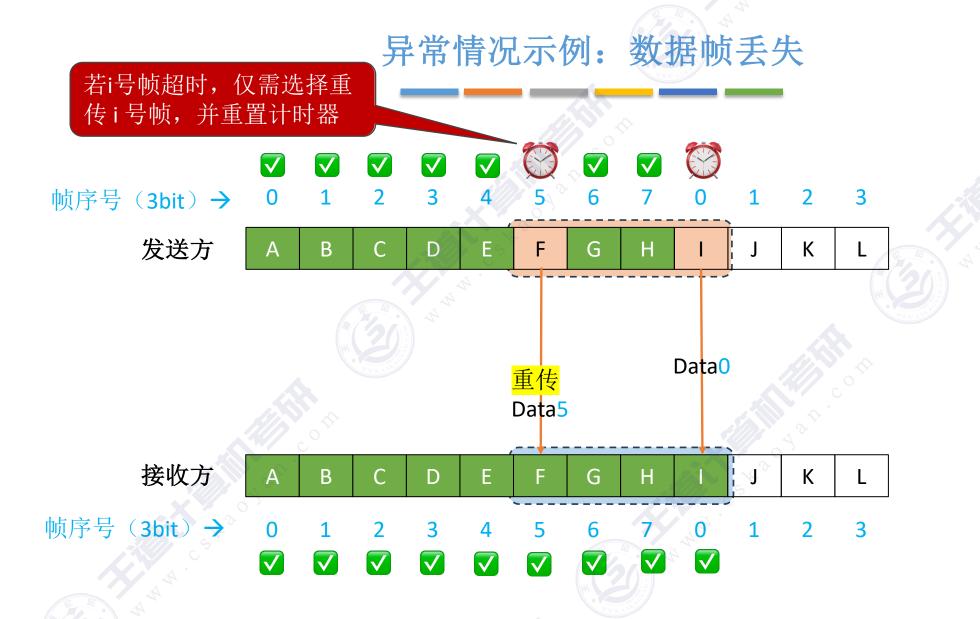


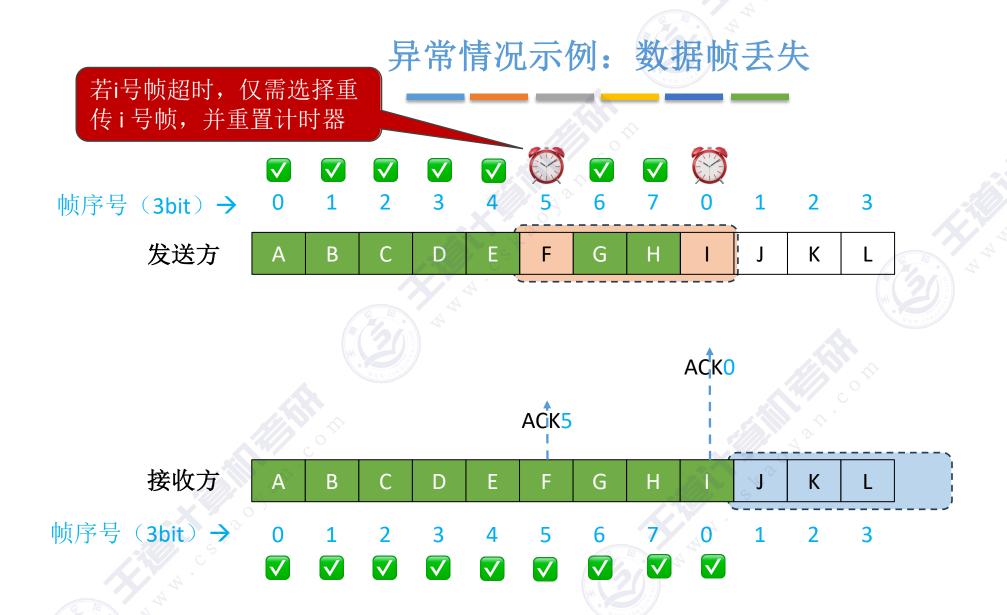


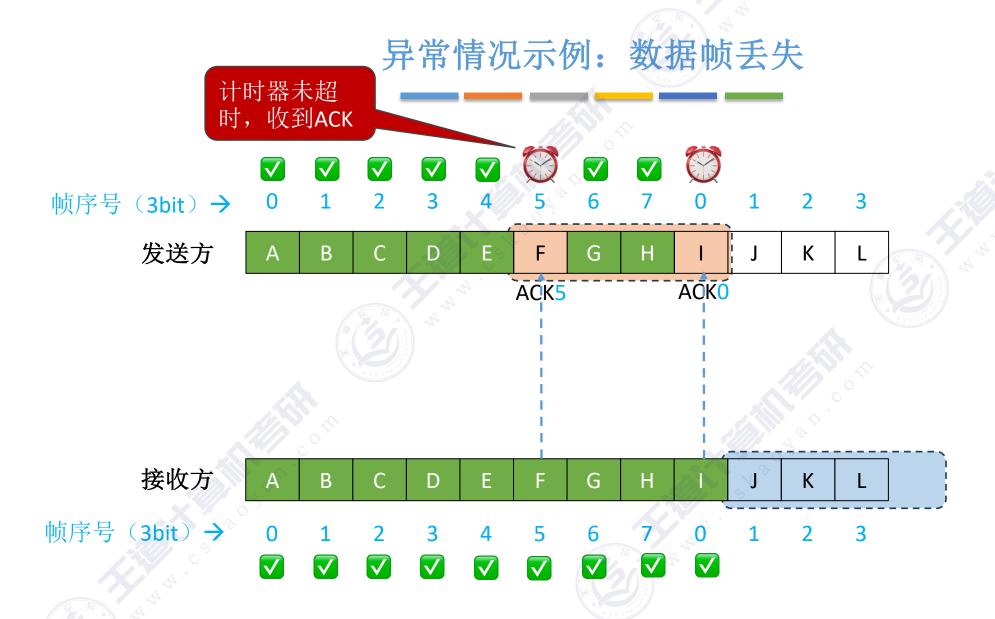


接收方	Α	В	С	D	Е	F	G	Н		ر ج ب	K	L
					•	<u> </u>						
帧序号(3bit)→	0	1	2	3	4	5	6	7	0	1	2	3
	V	V	V	V	V		V	V				









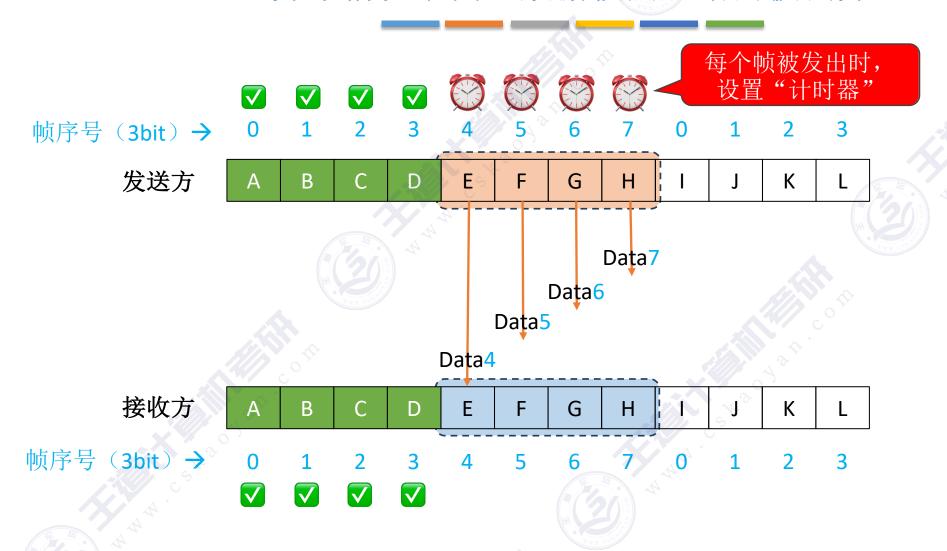


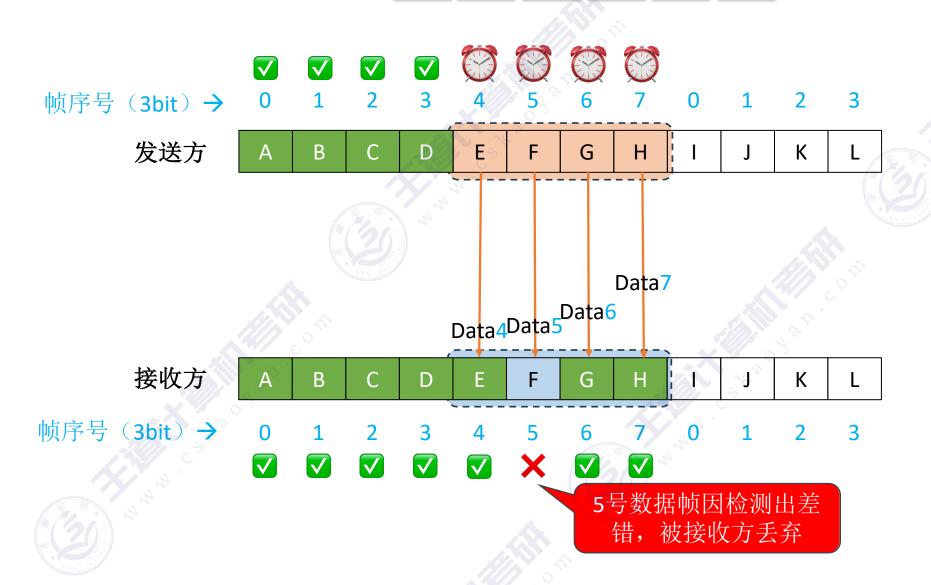
选择重传协议如何解决数据帧丢失问题:

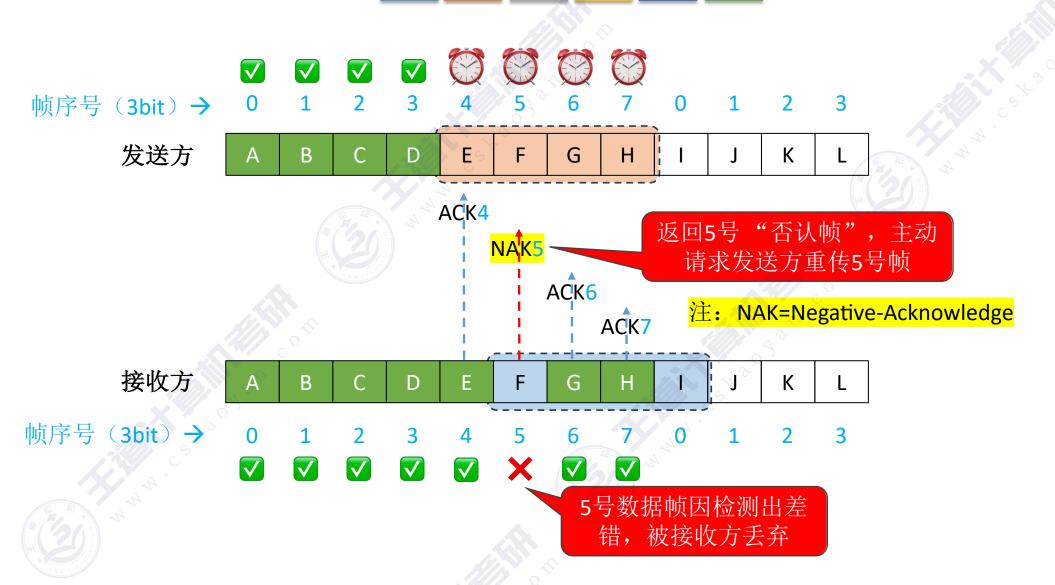
超时重传机制:每个帧被发出时设置<mark>计时器</mark>,如果<mark>超时未收</mark>

到对应的ACK,就<mark>重传</mark>这个帧

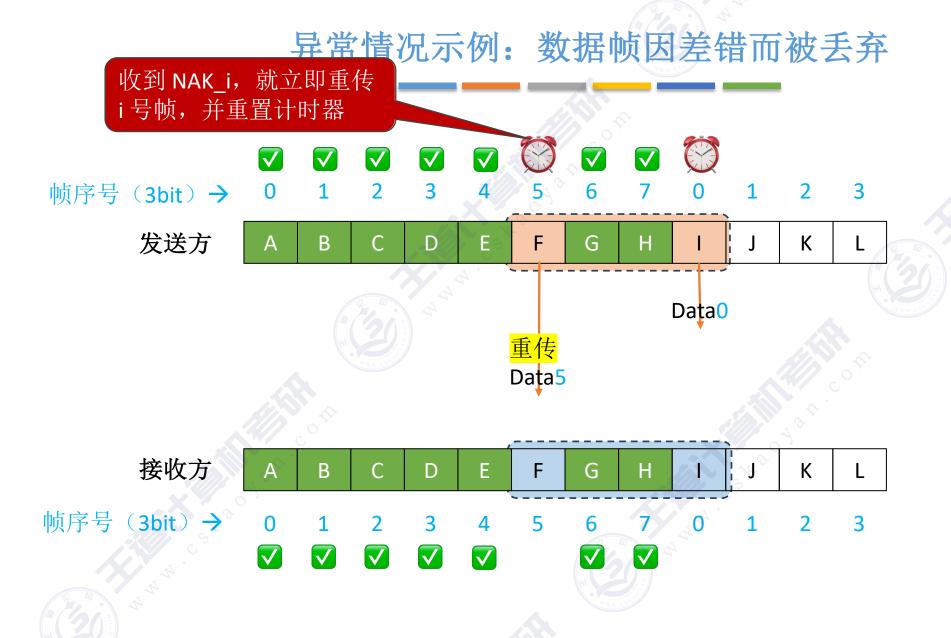
接收方	Α	В	С	D	Е	F	G	Н			K	L	
帧序号(3bit)→	0	1	2	3	4	5	6	7	0	1	2	3	
	V	V	V	V	V	V	V	V	V				

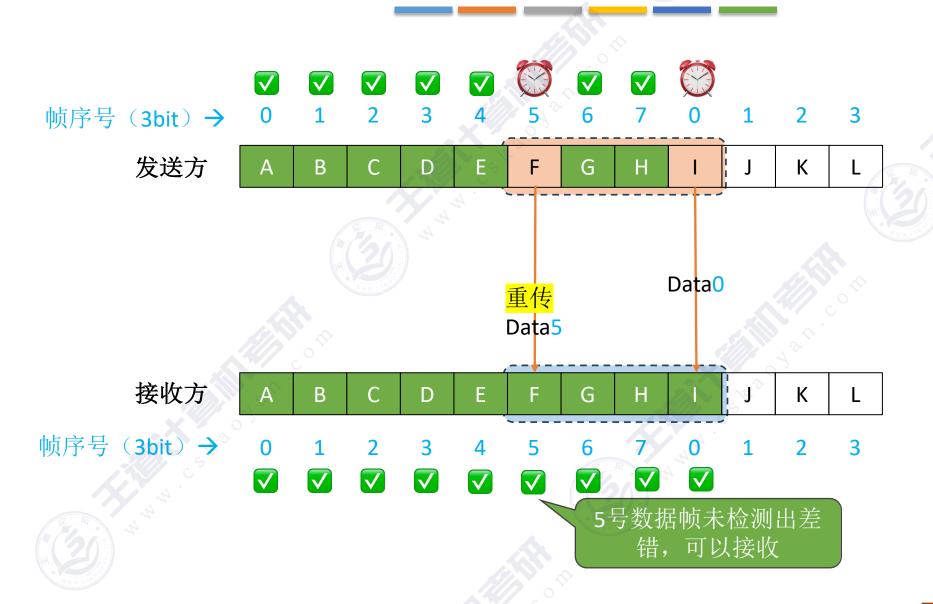


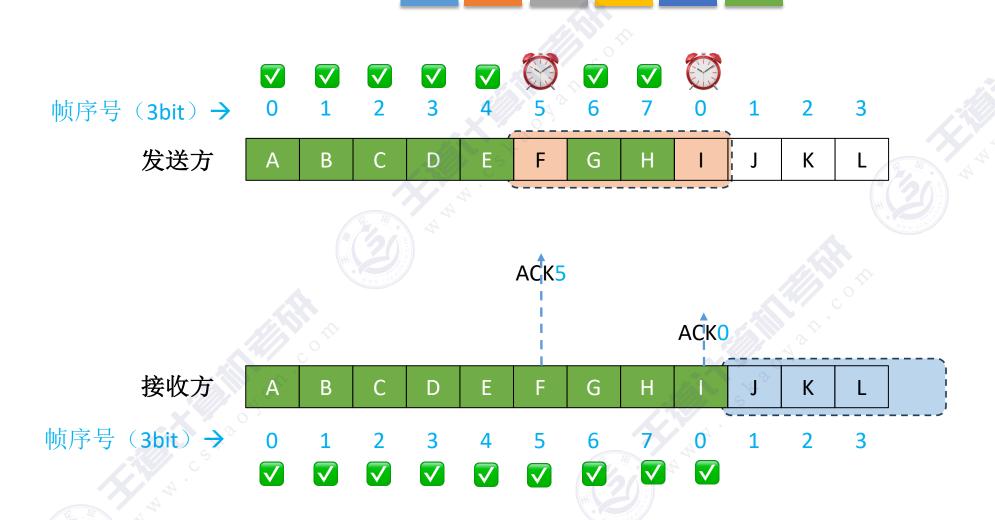


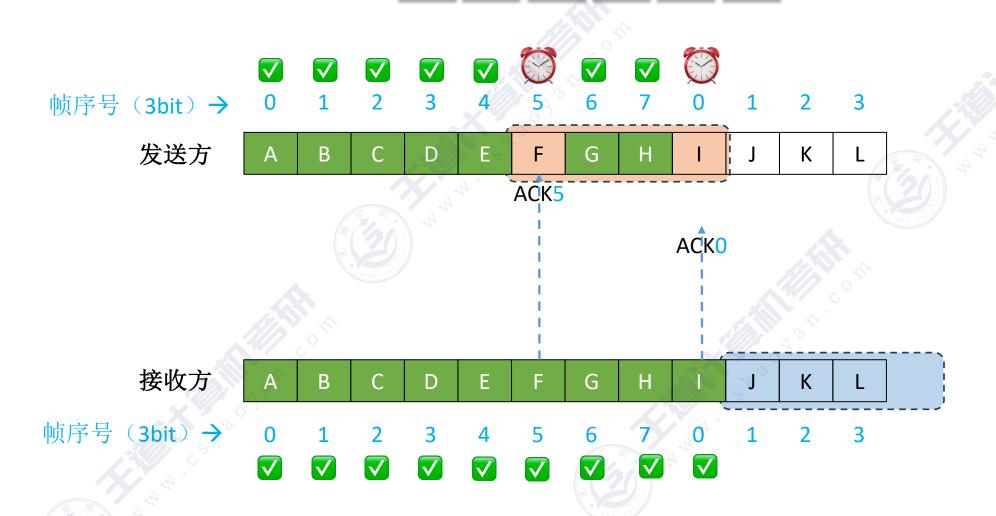


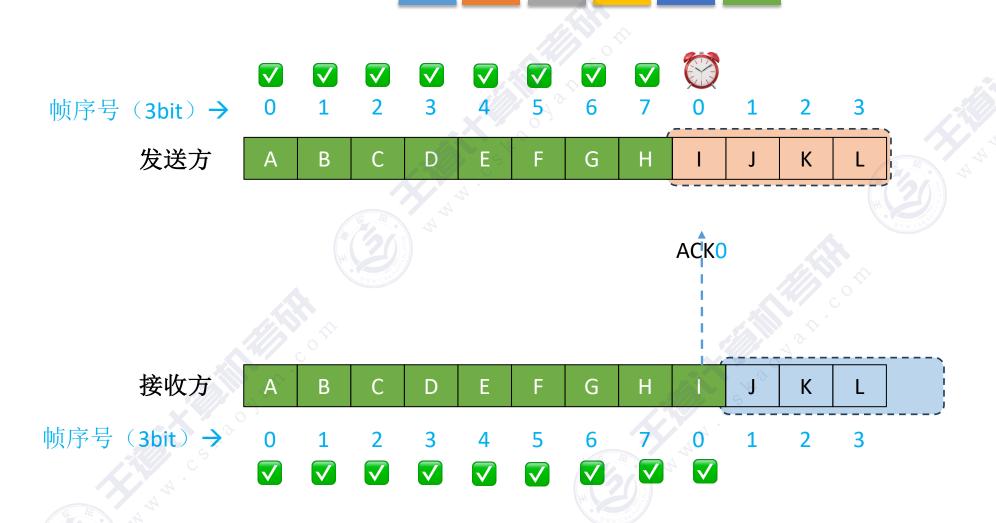


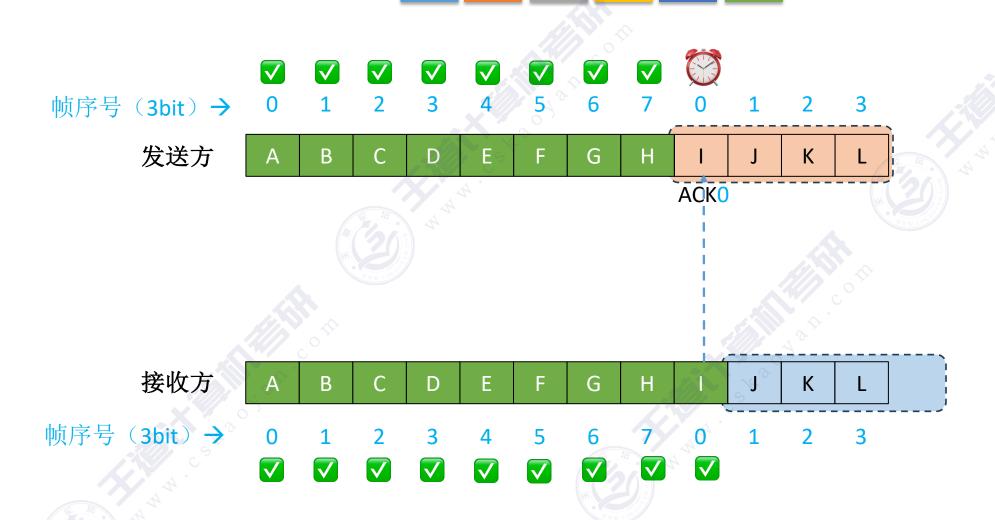










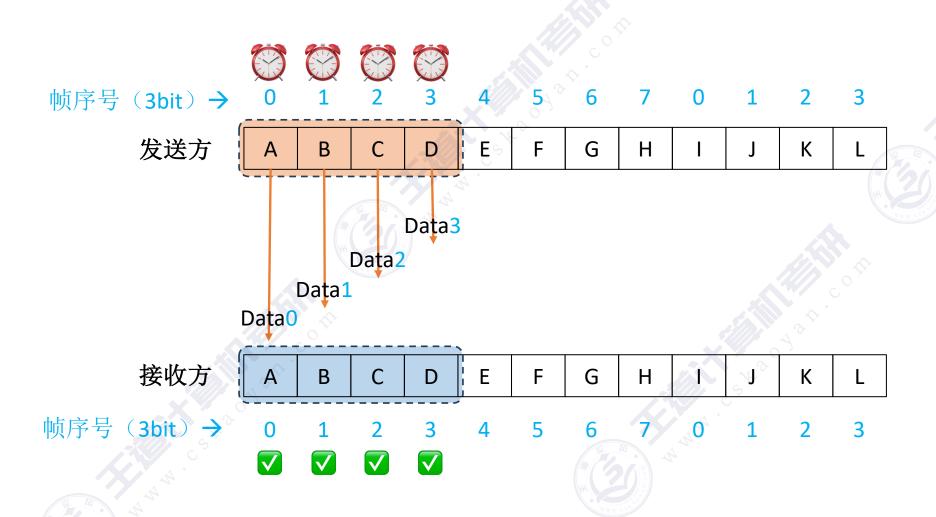


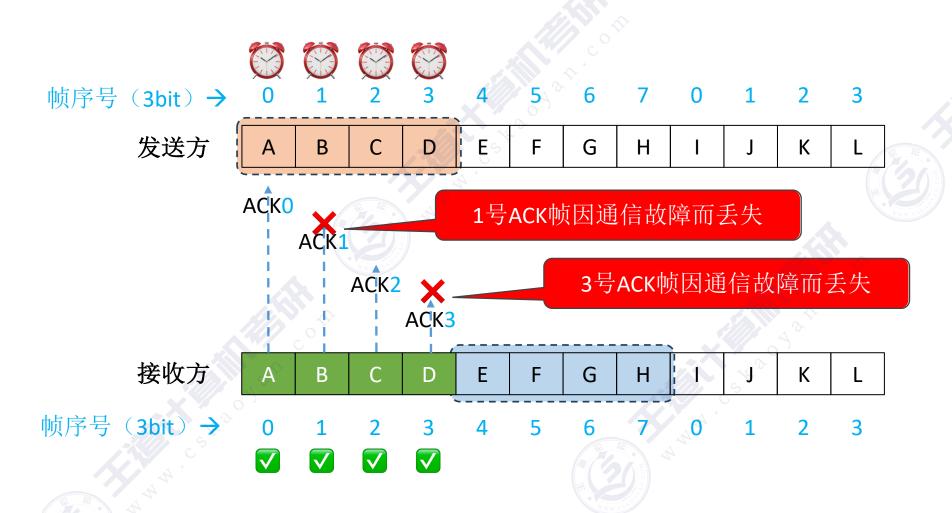


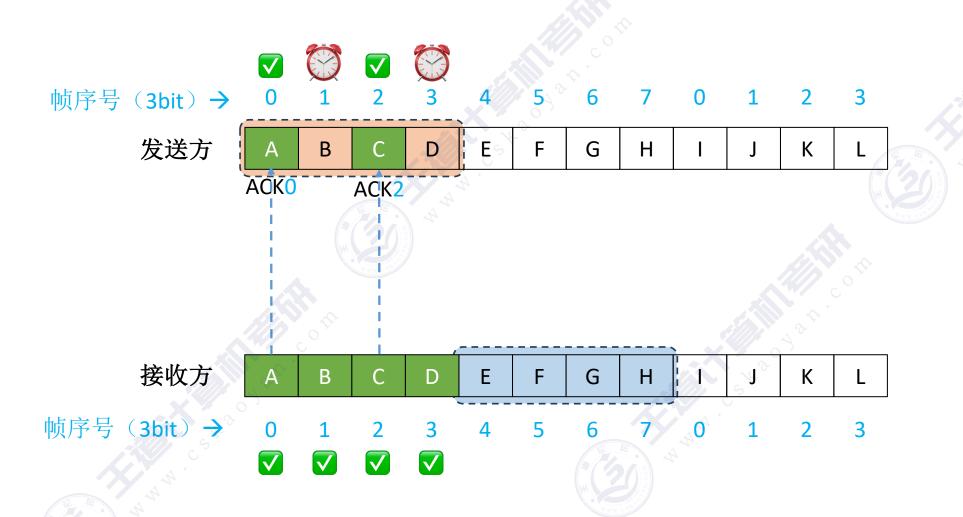
选择重传协议如何解决数据帧因差错而被丢弃问题:

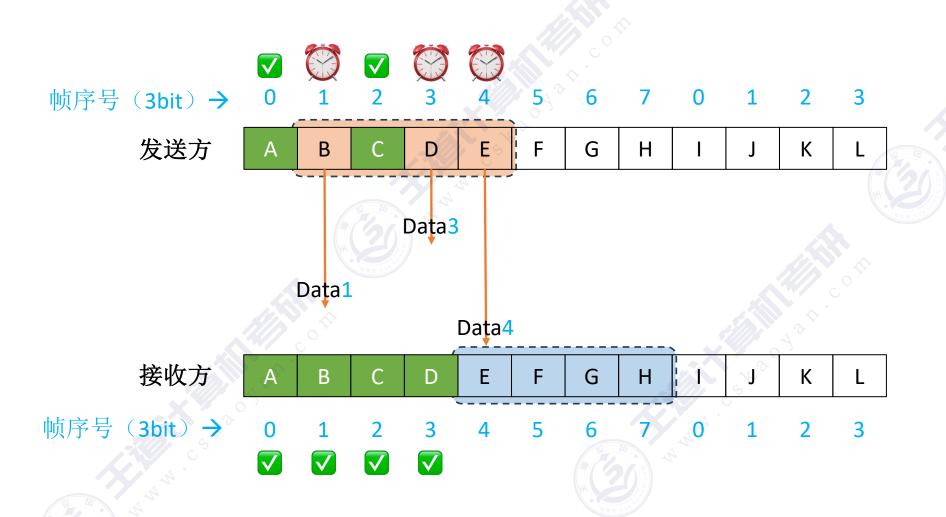
请求重传机制:如果接收方收到一个有差错的帧,就<mark>将此帧丢</mark>弃,并返回对应的<mark>否认帧NAK_i</mark>,主动请求发送方重传 i 号帧

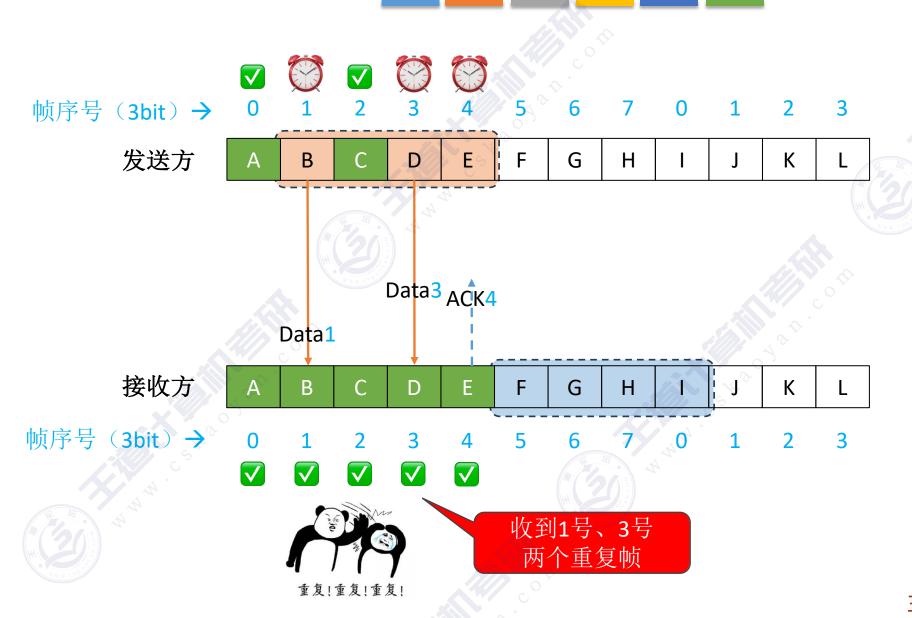
		\mathcal{O}											
接收方	Α	В	С	D	Е	F	G	Н		\$ 5 S	K	L	
										J			'
帧序号(3bit)→	0	1	2	3	4	5	6	7	0	1	2	3	
	V	V	V	V	V	V	V	V	V				

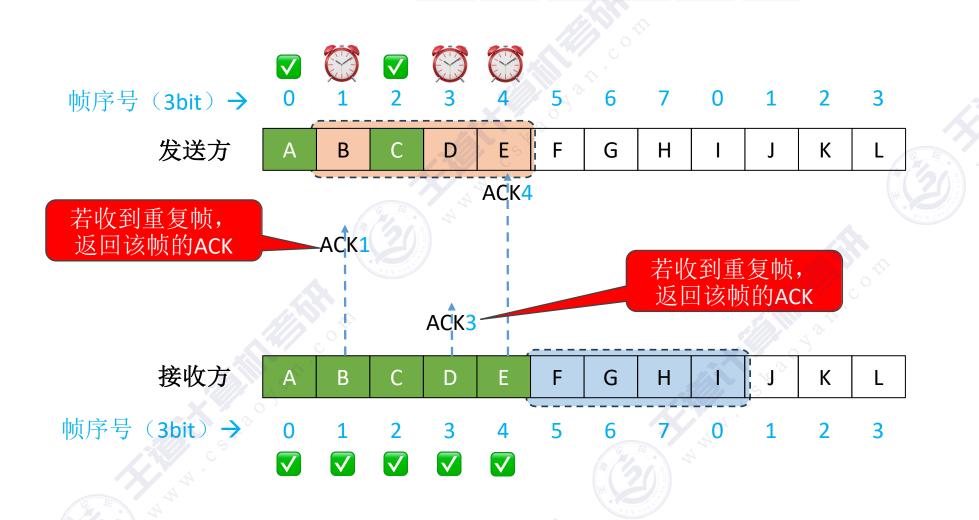


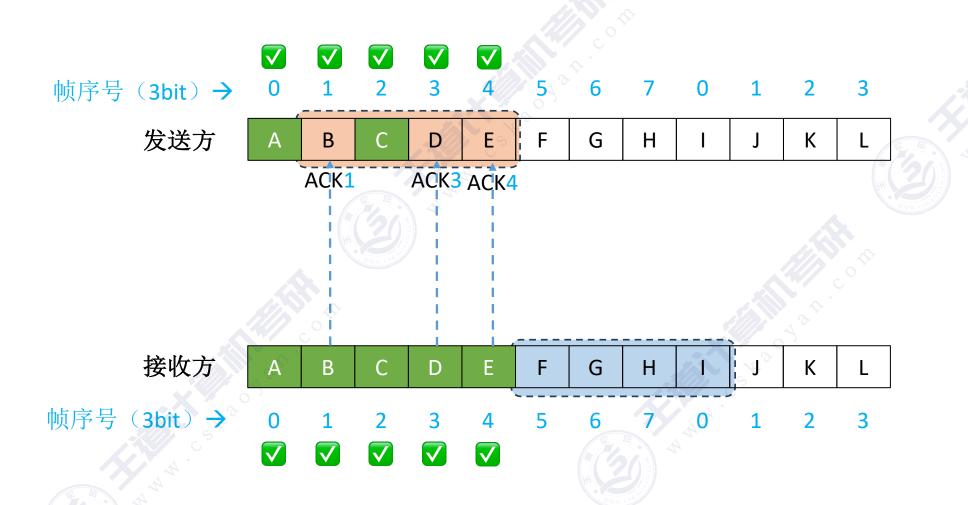


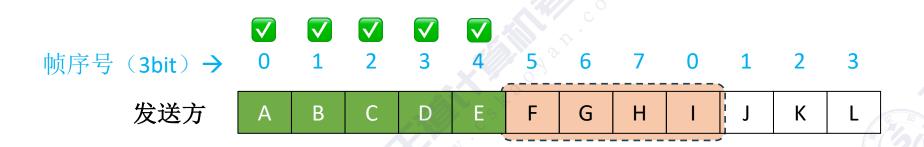






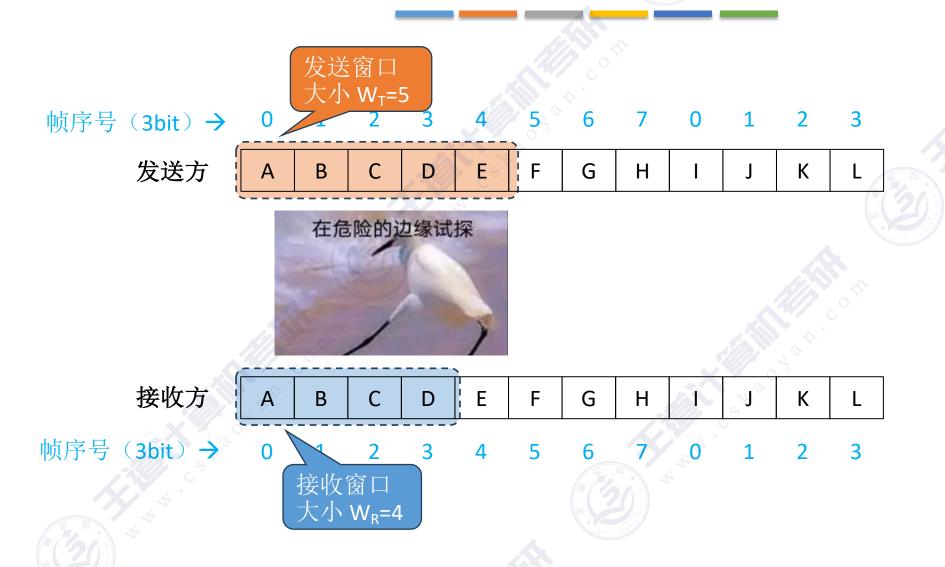




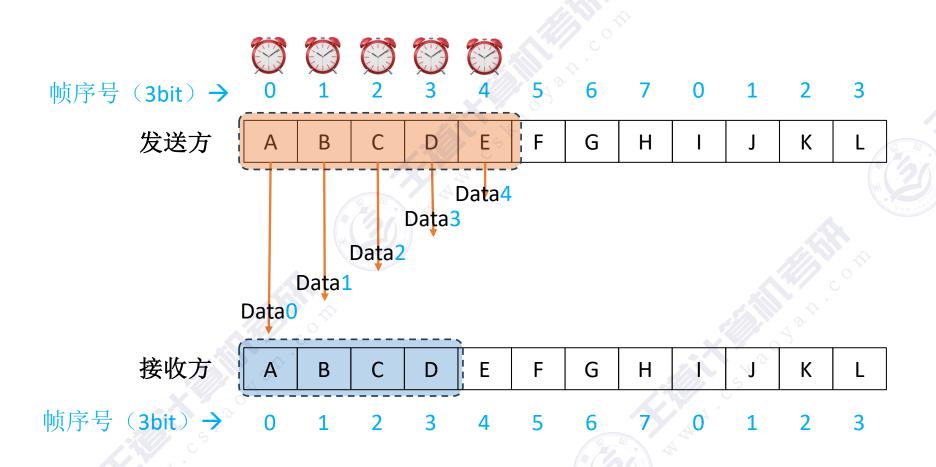




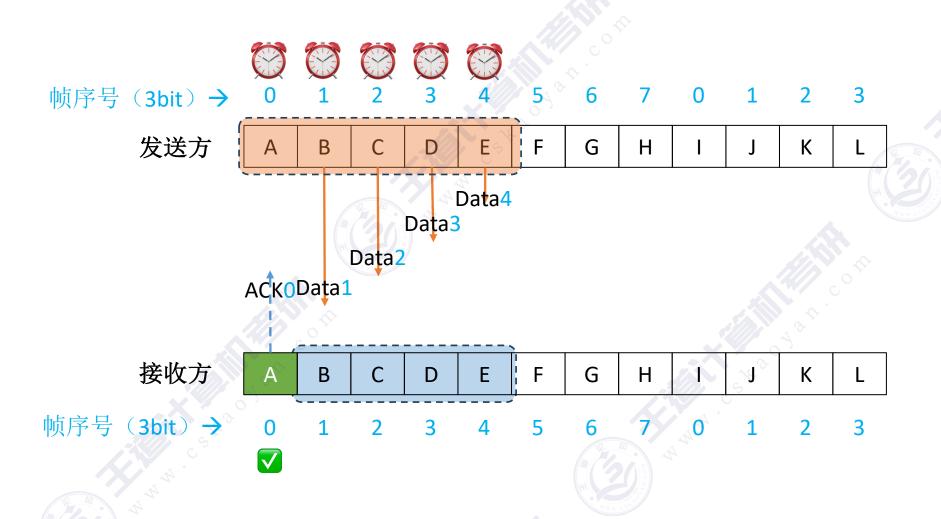
探讨: 如果 $\frac{7 + W_{r} \le 2^{r}}{2}$ 会有什么问题?



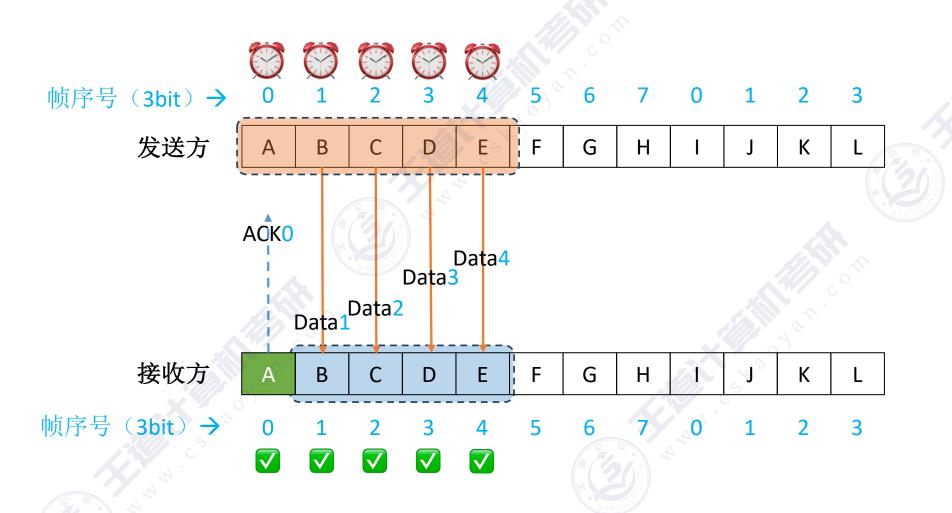
探讨: 如果 $\frac{7 + W_{r} \le 2^{r}}{2}$ 会有什么问题?



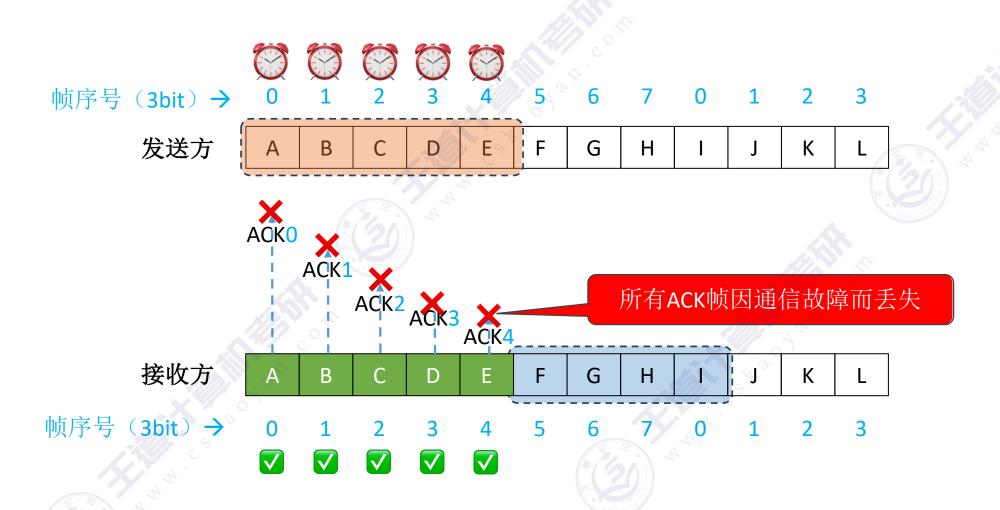
探讨: 如果 $\frac{7 + W_{r} \le 2^{r}}{2}$ 会有什么问题?



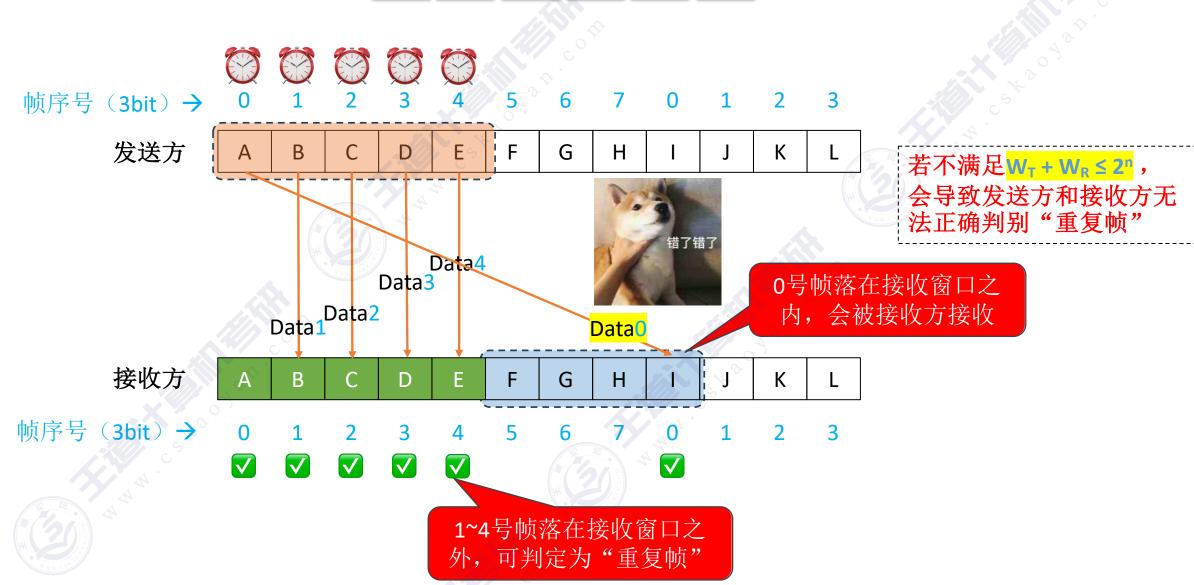
探讨: 如果 \overline{T} 满足 $W_T + W_R \le 2^n$ 会有什么问题?



探讨:如果不满足 $W_T + W_R \le 2^T$ 会有什么问题?



探讨: 如果 $\frac{7 + W_R \le 2^n}{2}$ 会有什么问题?



知识回顾与重要考点

