

Design Review

Henry Huang

E190U

Progress

- Bullets now have more complex data structures
 - acceleration
 - rotation
 - multiple state
- Infrastructure now supports complex bullets
 - Pull position, rotation, type, state, age

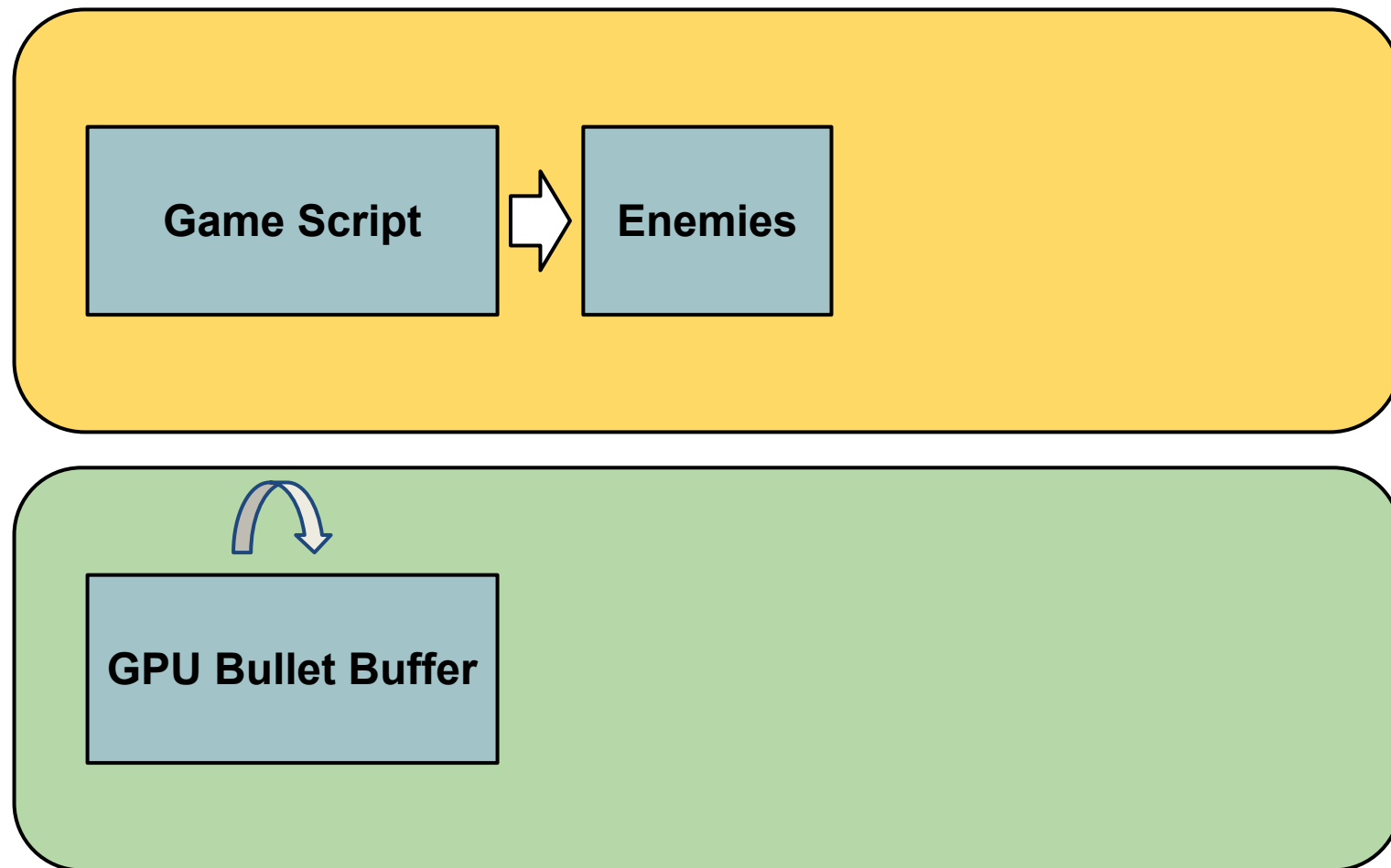
Adding Bullets

E190U: VIDEO GAME CONSOLE DESIGN

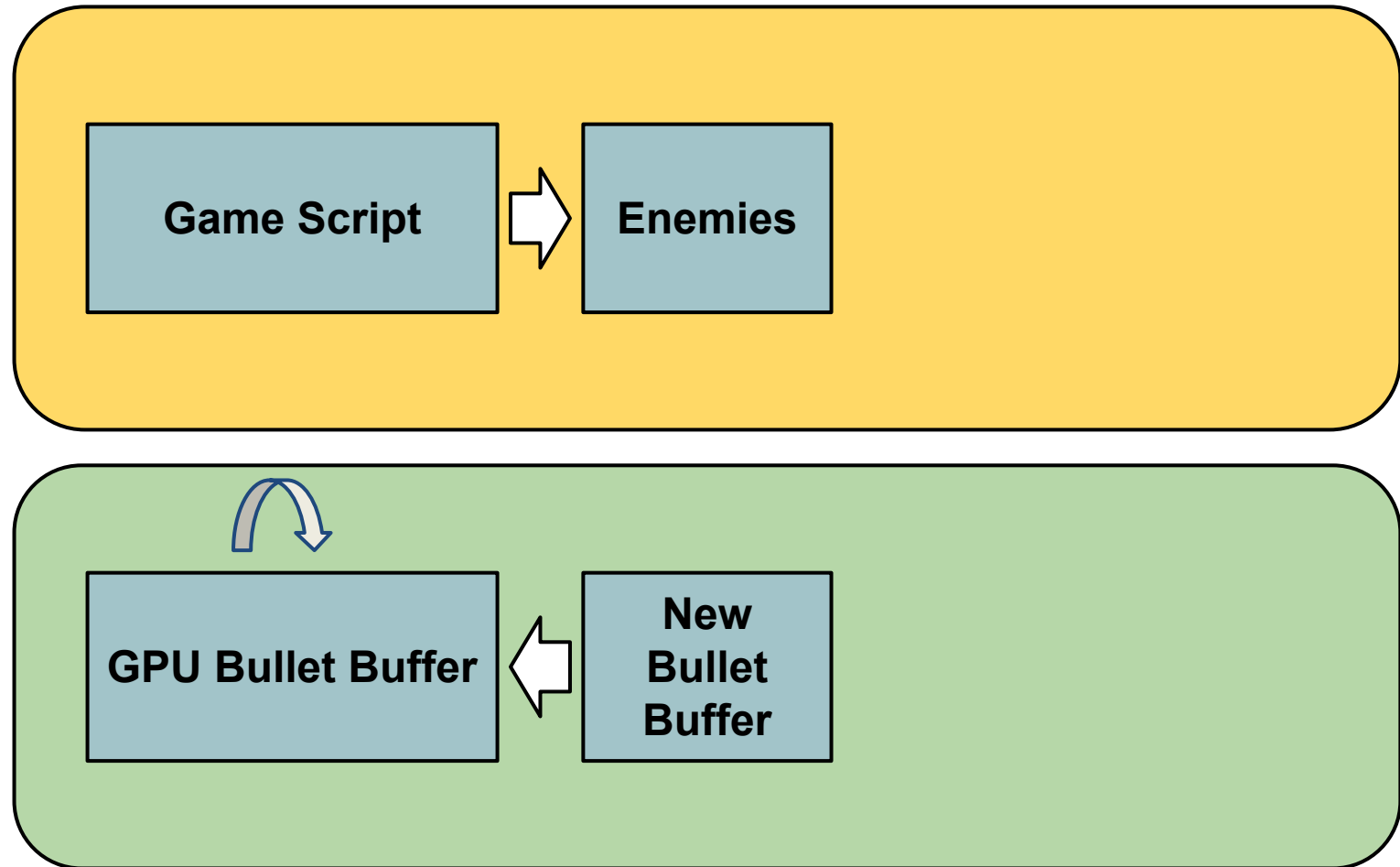
Game Script

GPU Bullet Buffer

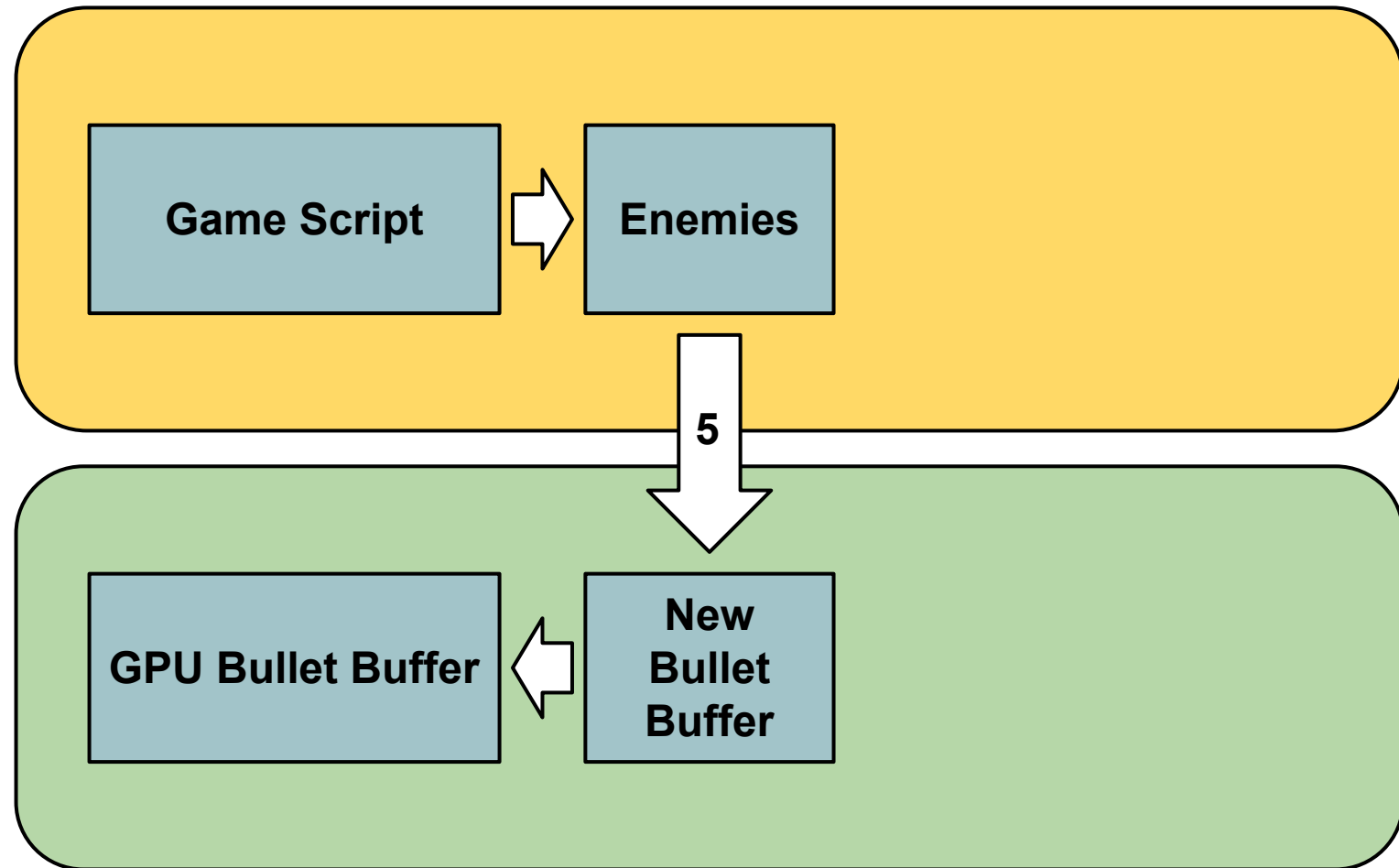
E190U: VIDEO GAME CONSOLE DESIGN



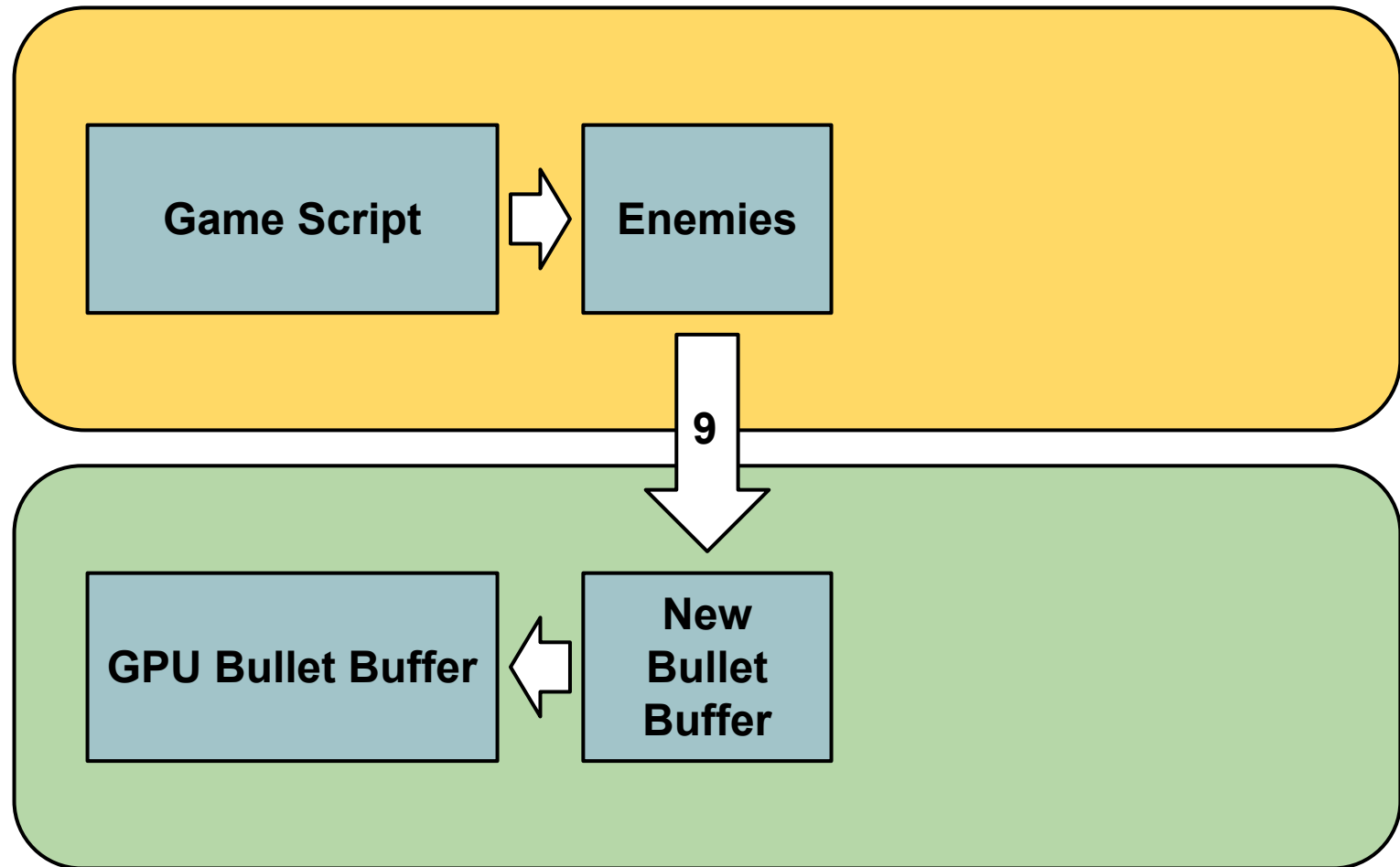
E190U: VIDEO GAME CONSOLE DESIGN



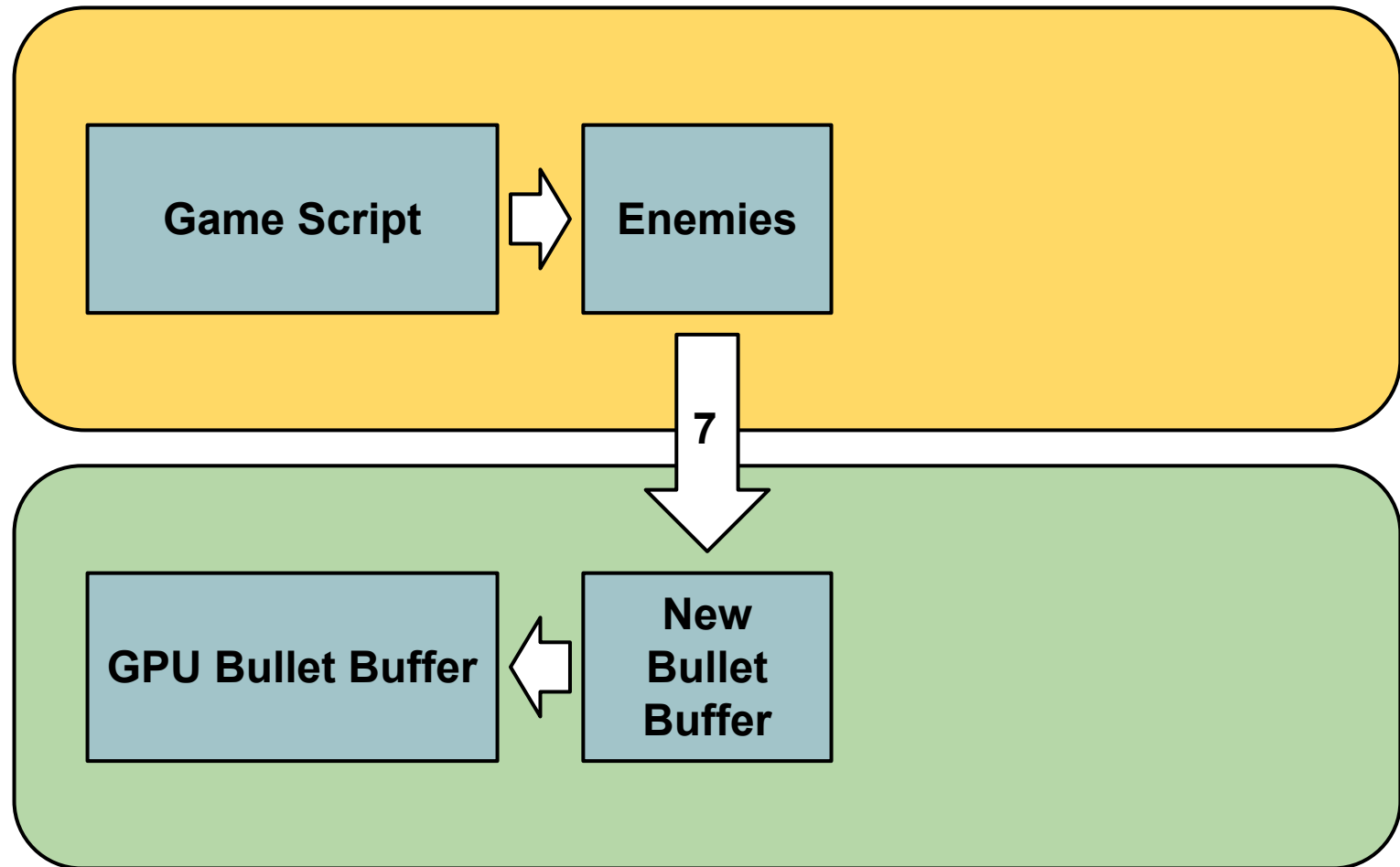
E190U: VIDEO GAME CONSOLE DESIGN



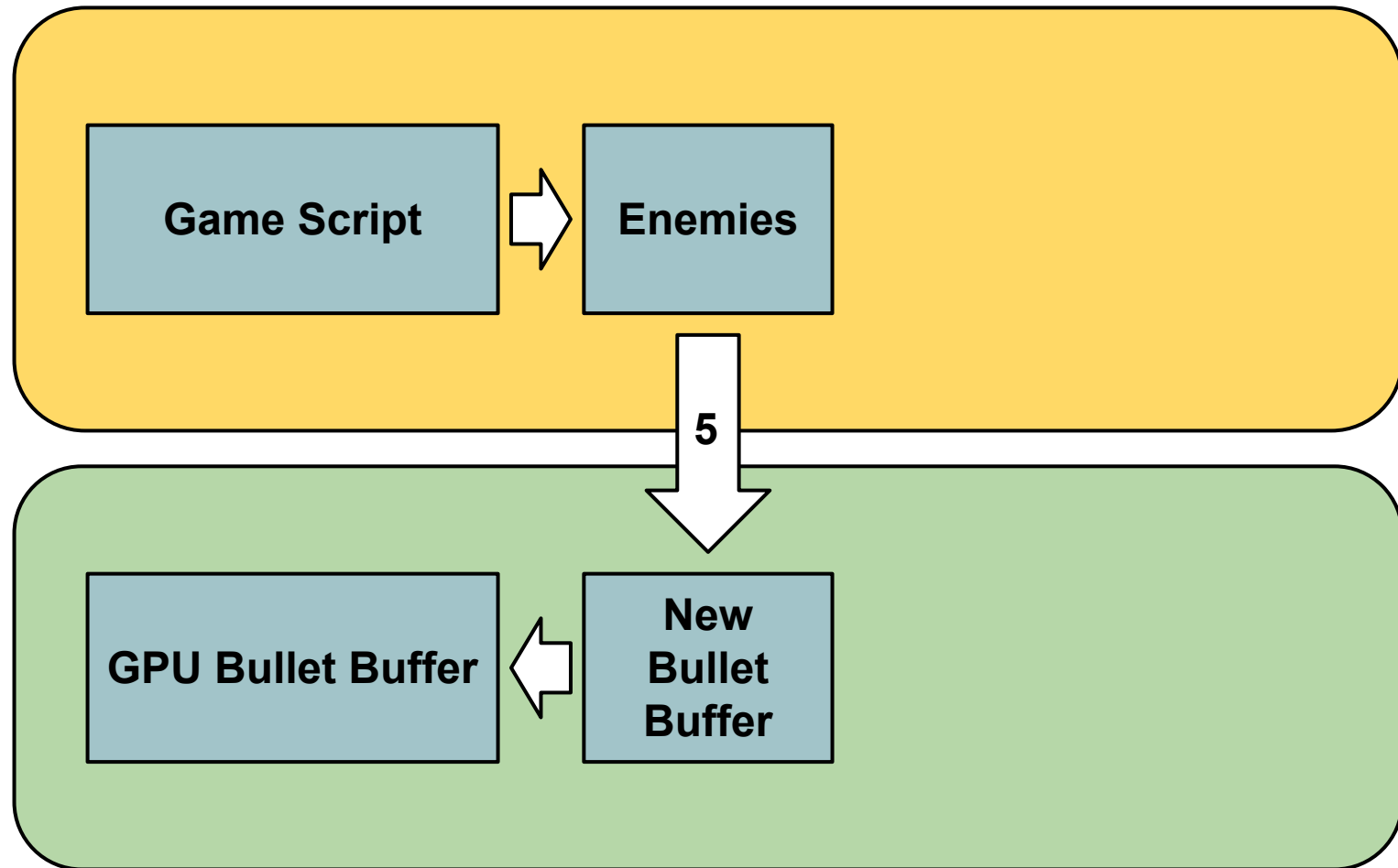
E190U: VIDEO GAME CONSOLE DESIGN



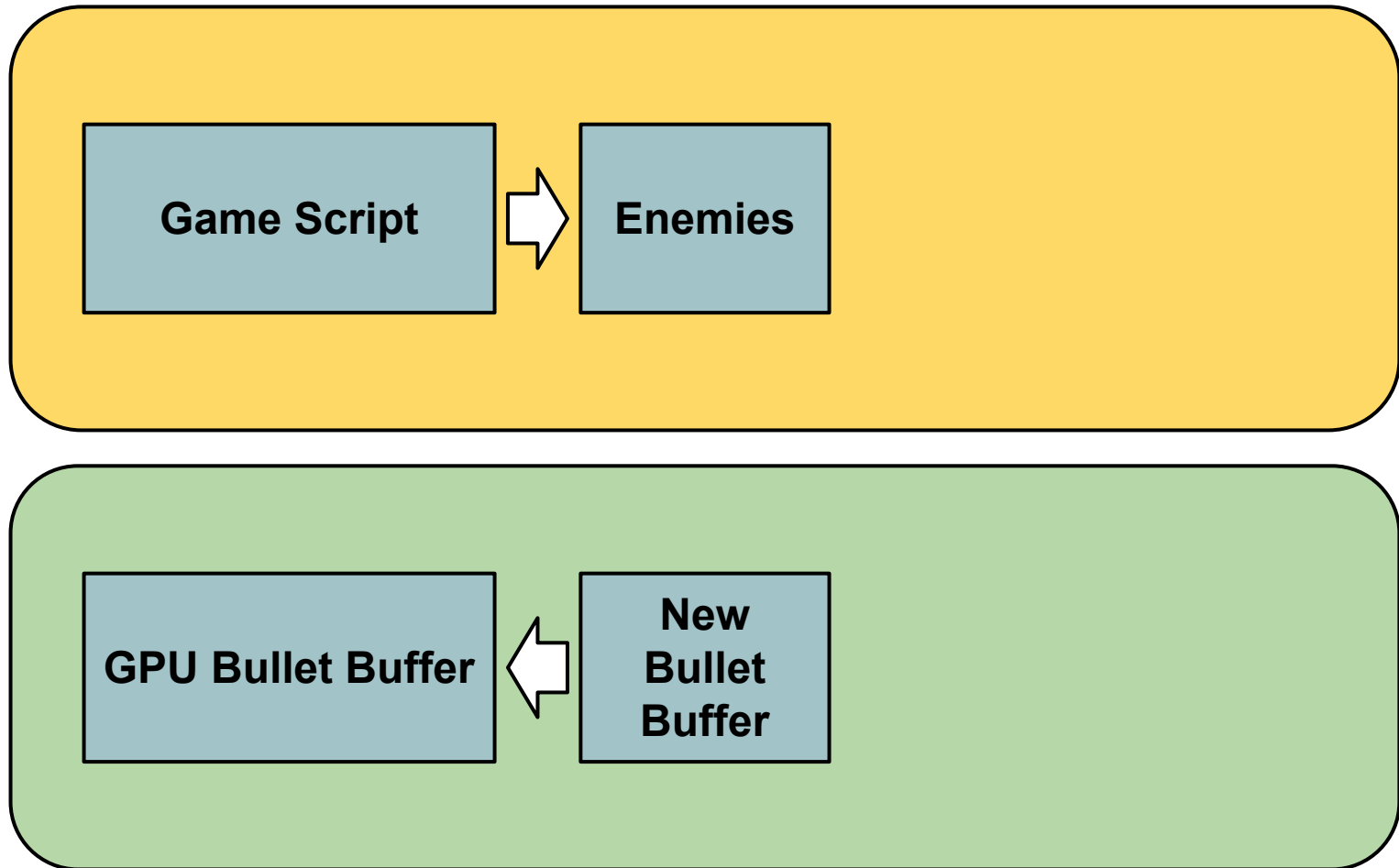
E190U: VIDEO GAME CONSOLE DESIGN



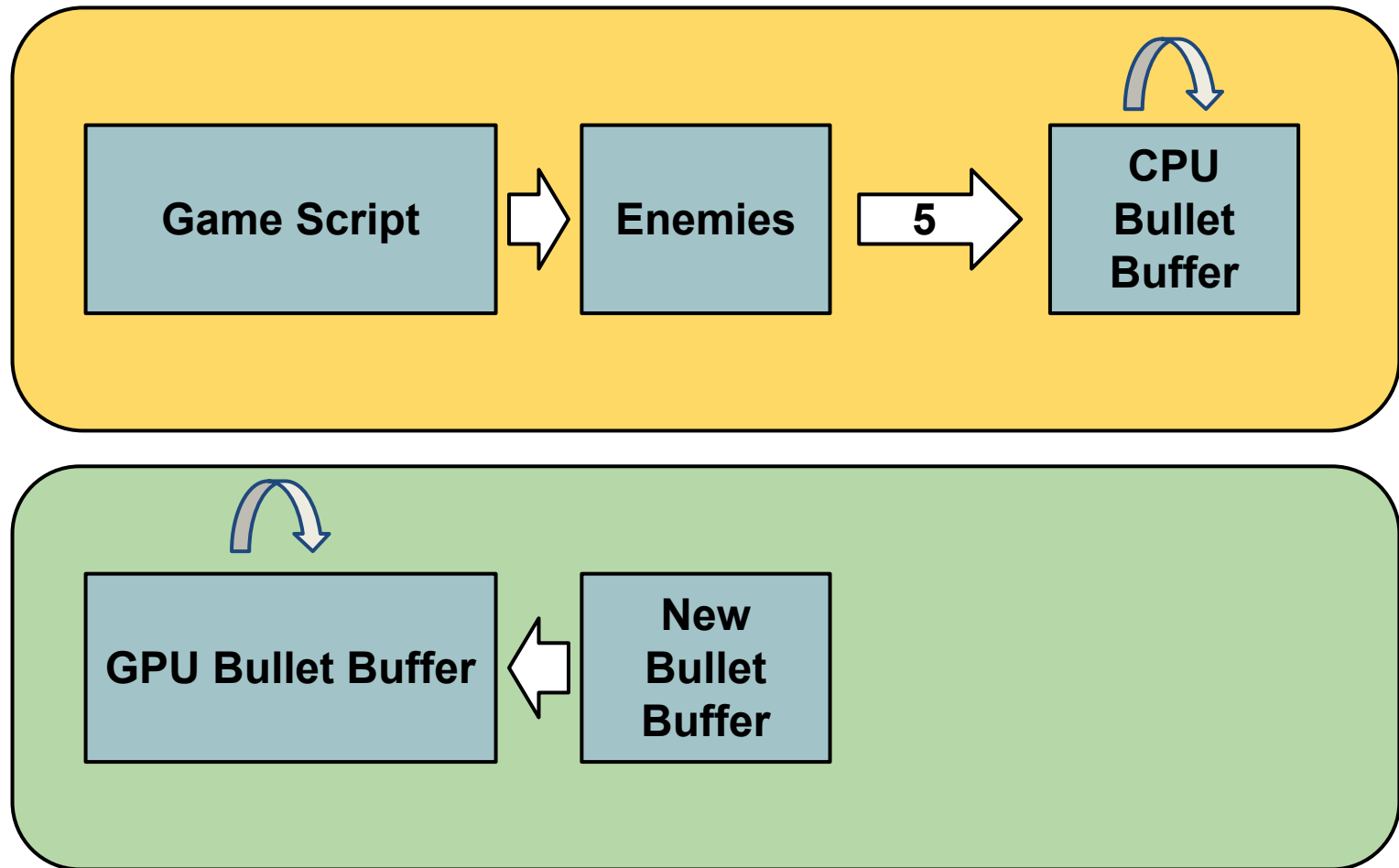
E190U: VIDEO GAME CONSOLE DESIGN



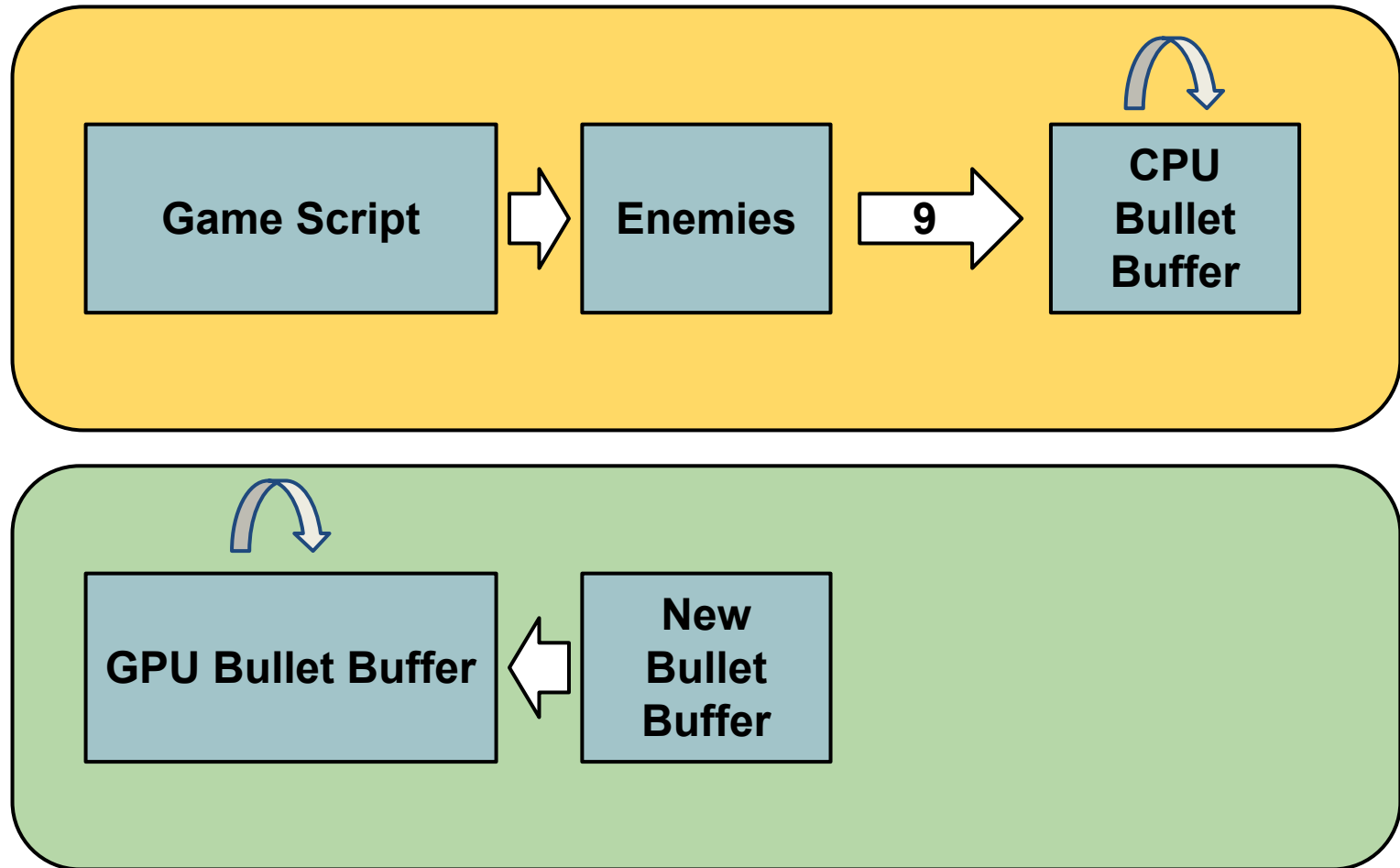
E190U: VIDEO GAME CONSOLE DESIGN



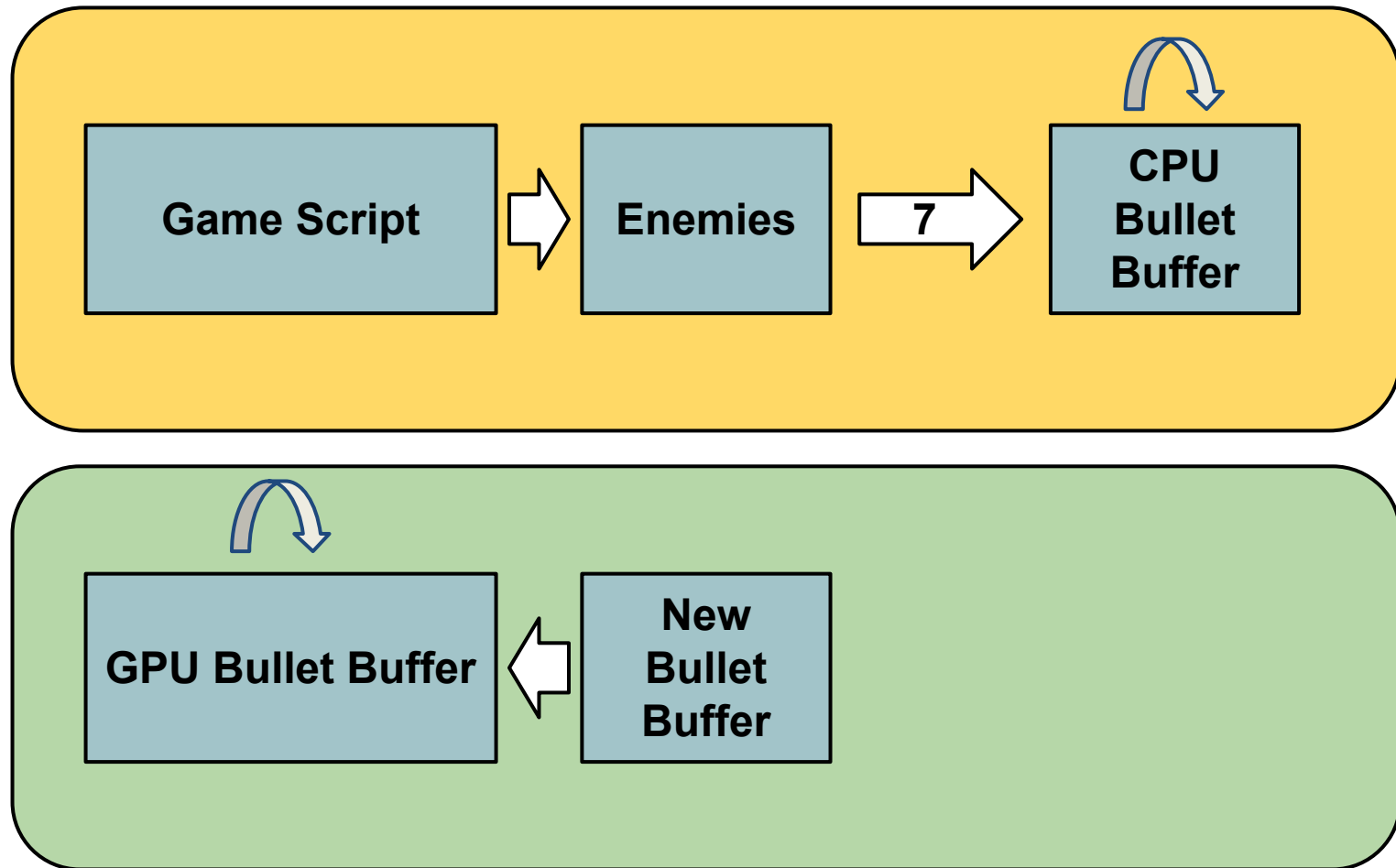
E190U: VIDEO GAME CONSOLE DESIGN



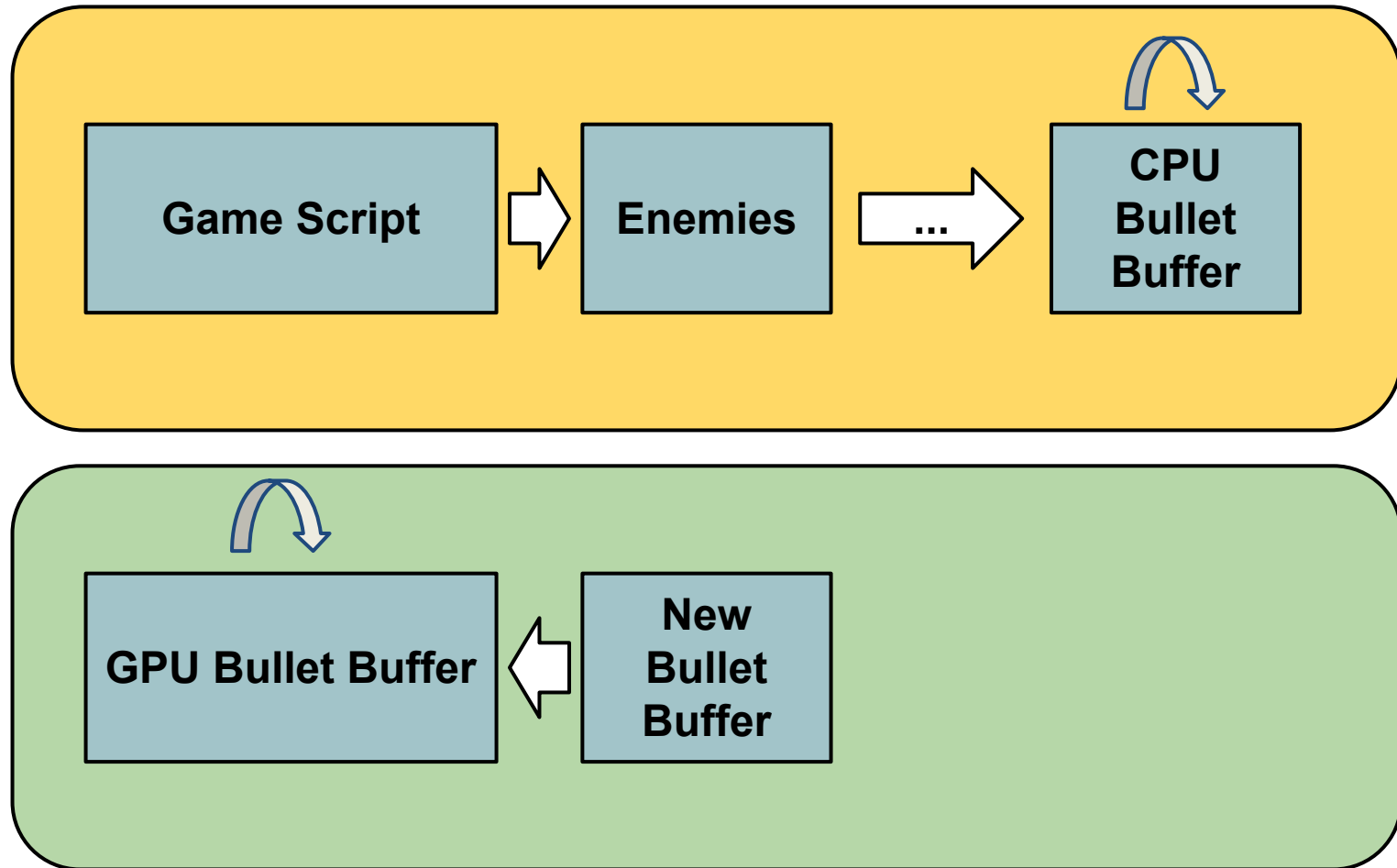
E190U: VIDEO GAME CONSOLE DESIGN



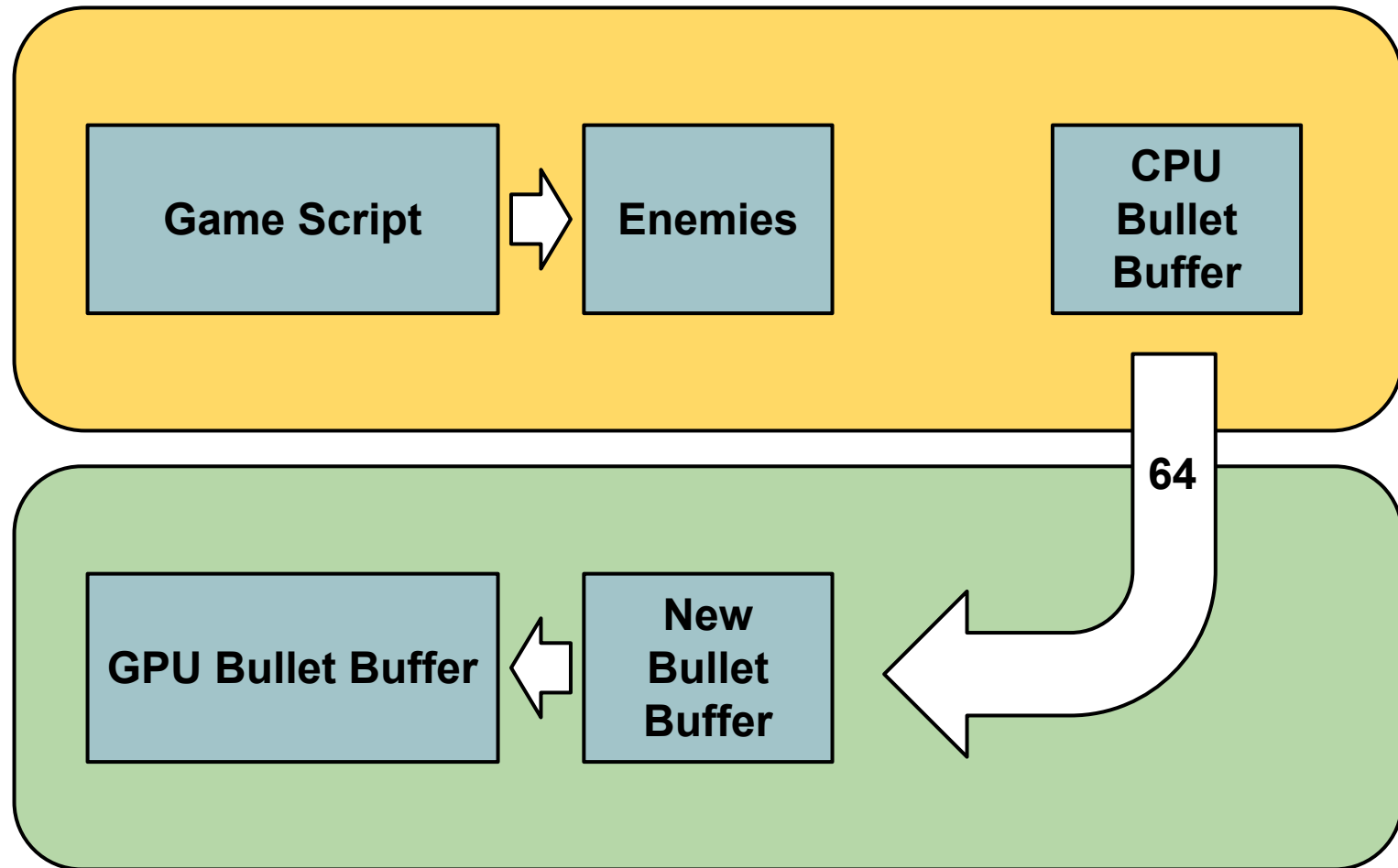
E190U: VIDEO GAME CONSOLE DESIGN



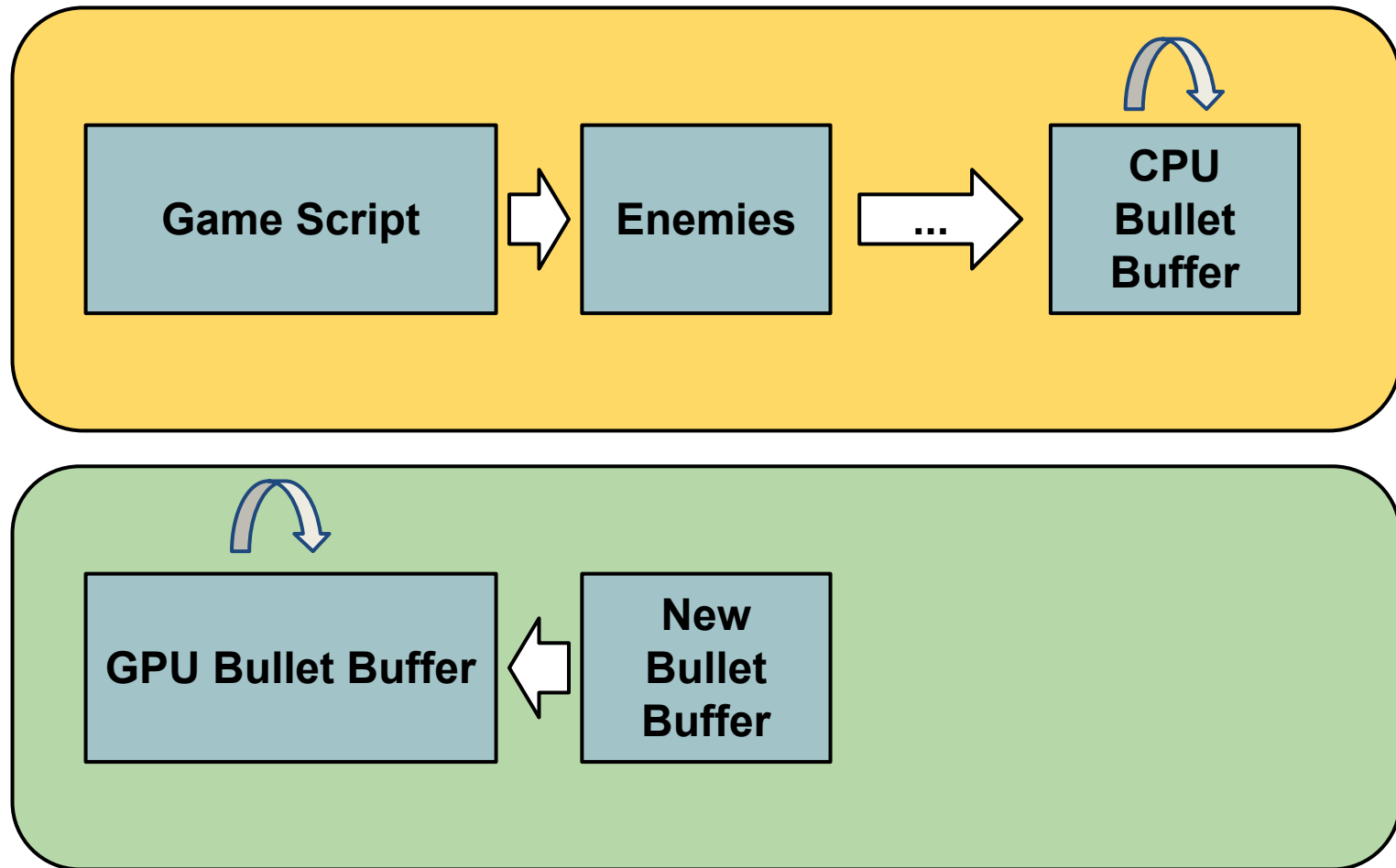
E190U: VIDEO GAME CONSOLE DESIGN



E190U: VIDEO GAME CONSOLE DESIGN



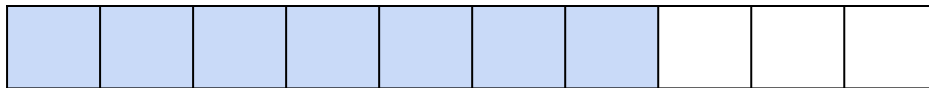
E190U: VIDEO GAME CONSOLE DESIGN



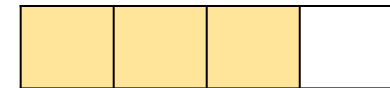
Deleting/Replacing Bullets

E190U: VIDEO GAME CONSOLE DESIGN

GPU Bullet Buffer

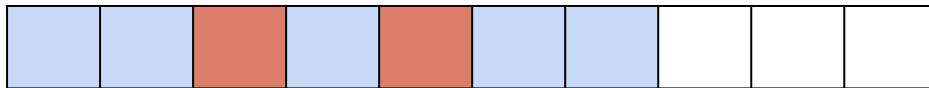


New Bullet Buffer

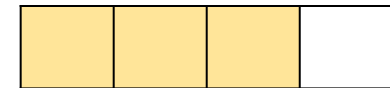


E190U: VIDEO GAME CONSOLE DESIGN

GPU Bullet Buffer

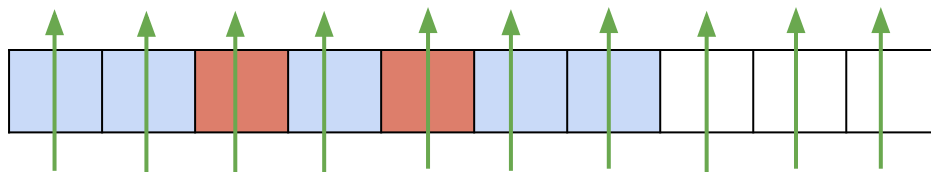


New Bullet Buffer

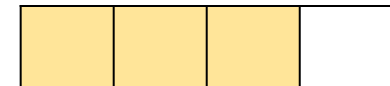


E190U: VIDEO GAME CONSOLE DESIGN

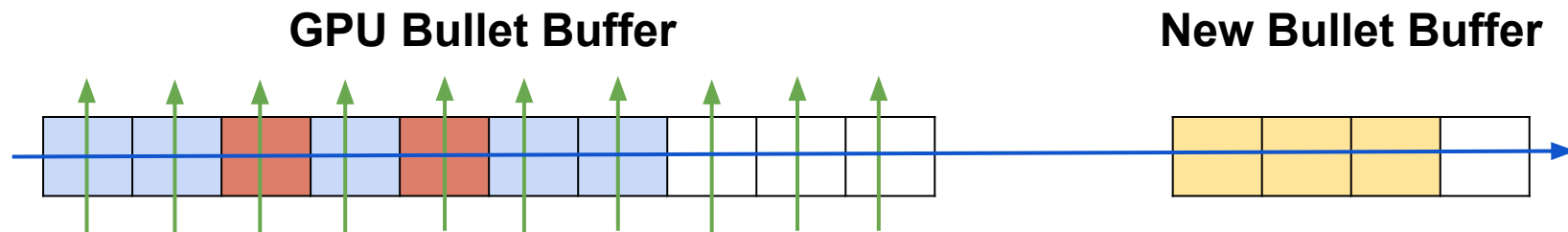
GPU Bullet Buffer



New Bullet Buffer



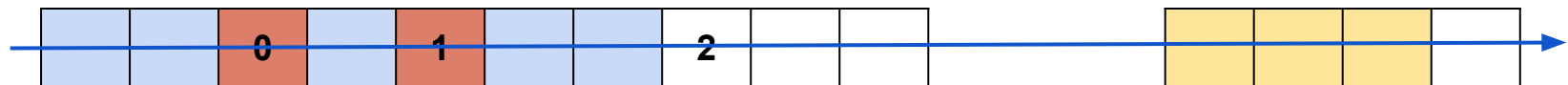
E190U: VIDEO GAME CONSOLE DESIGN



E190U: VIDEO GAME CONSOLE DESIGN

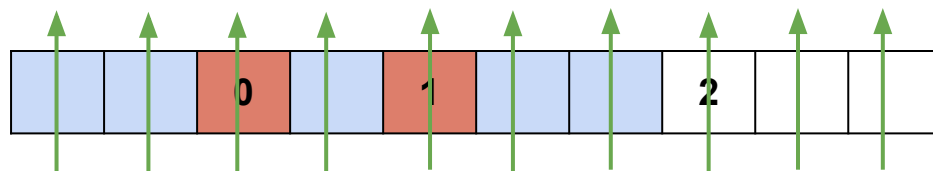
GPU Bullet Buffer

New Bullet Buffer

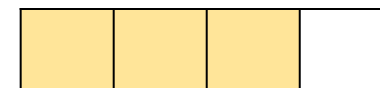


E190U: VIDEO GAME CONSOLE DESIGN

GPU Bullet Buffer

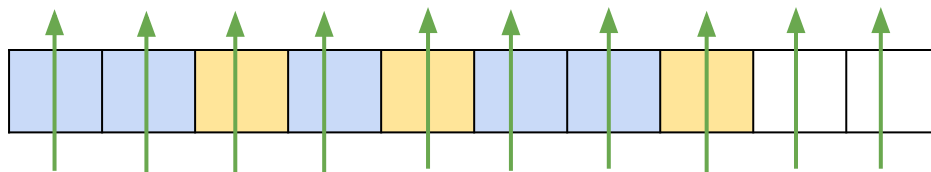


New Bullet Buffer

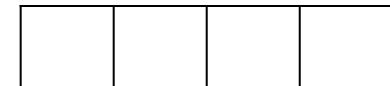


E190U: VIDEO GAME CONSOLE DESIGN

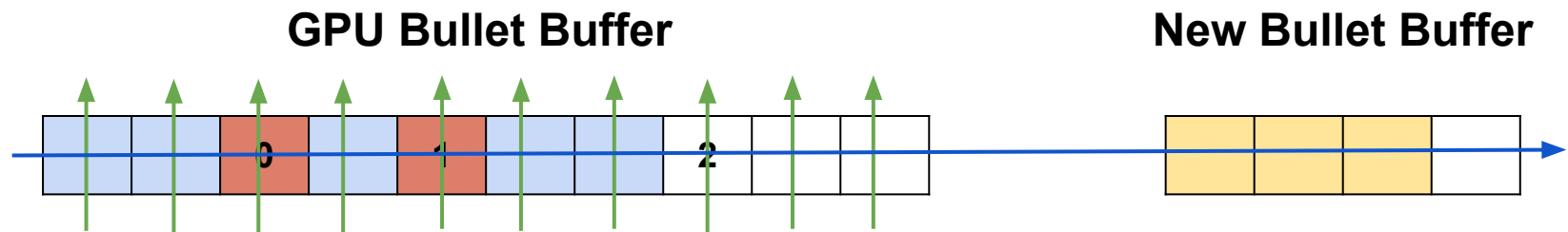
GPU Bullet Buffer



New Bullet Buffer

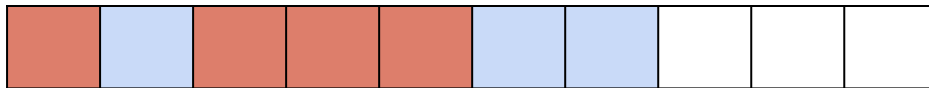


E190U: VIDEO GAME CONSOLE DESIGN

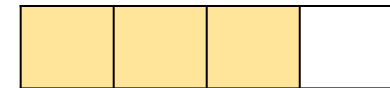


E190U: VIDEO GAME CONSOLE DESIGN

GPU Bullet Buffer

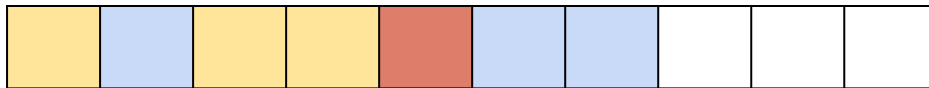


New Bullet Buffer

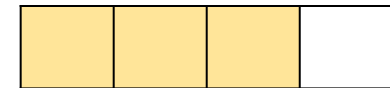


E190U: VIDEO GAME CONSOLE DESIGN

GPU Bullet Buffer



New Bullet Buffer



E190U: VIDEO GAME CONSOLE DESIGN

GPU Bullet Buffer

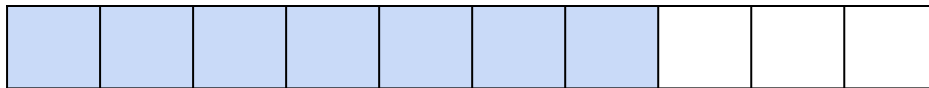
7	1	8	9		5	6			
---	---	---	---	--	---	---	--	--	--

New Bullet Buffer

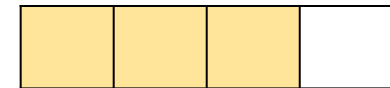
--	--	--	--

E190U: VIDEO GAME CONSOLE DESIGN

GPU Bullet Buffer

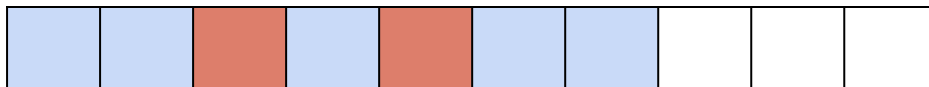


New Bullet Buffer

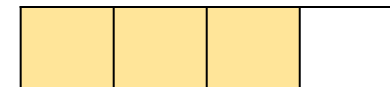


E190U: VIDEO GAME CONSOLE DESIGN

GPU Bullet Buffer



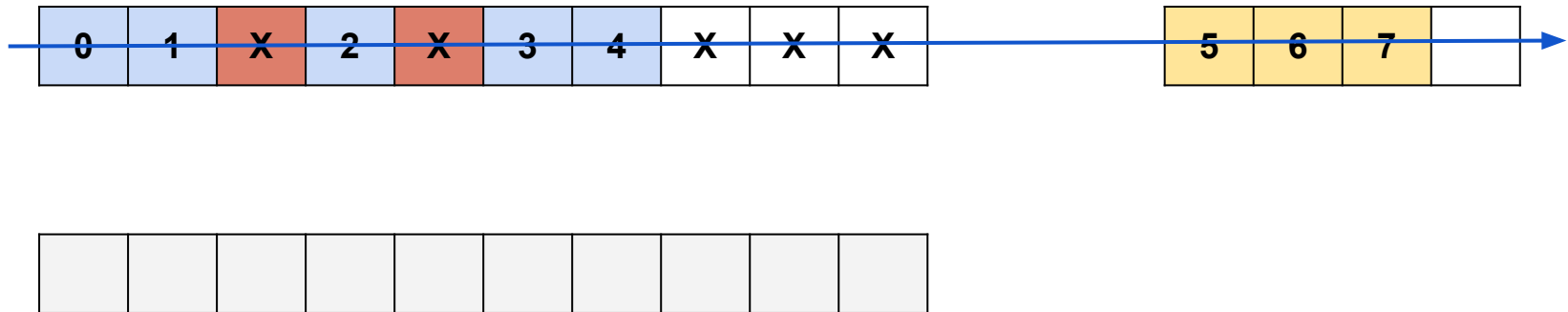
New Bullet Buffer



E190U: VIDEO GAME CONSOLE DESIGN

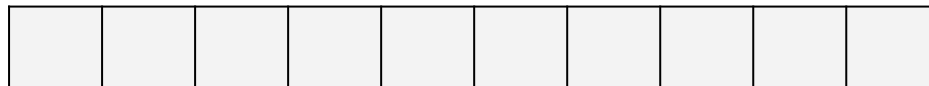
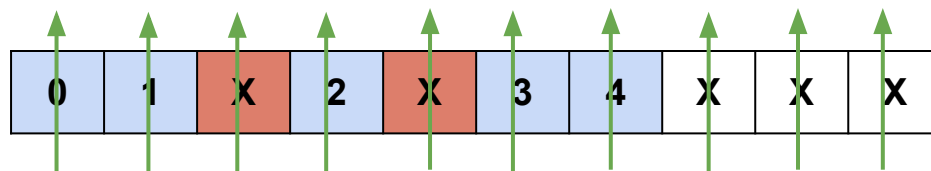
GPU Bullet Buffer

New Bullet Buffer

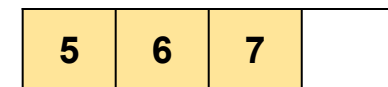


E190U: VIDEO GAME CONSOLE DESIGN

GPU Bullet Buffer

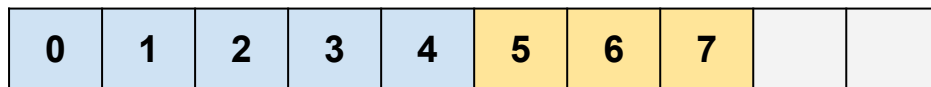
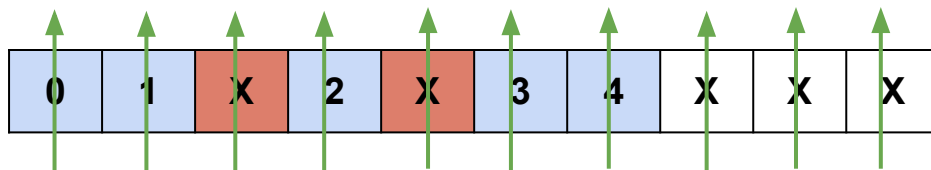


New Bullet Buffer



E190U: VIDEO GAME CONSOLE DESIGN

GPU Bullet Buffer



New Bullet Buffer



E190U: VIDEO GAME CONSOLE DESIGN

GPU Bullet Buffer

0	1	2	3	4	5	6	7		
---	---	---	---	---	---	---	---	--	--

0	1	X	2	X	3	4	X	X	X
---	---	---	---	---	---	---	---	---	---

New Bullet Buffer

--	--	--	--