Summary of Key Allocator Policies

- **Placement policy:**
 - First-fit, next-fit, best-fit, etc.
 - Trades off lower throughput for less fragmentation
- Splitting policy:
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 When do we go ahead and split free blocks?

 - How much internal fragmentation are we willing to tolerate? https://powcoder.com
- **Coalescing policy:**
 - Immediate coalescing: Wateschat PRIME PLEE is called
 - **Deferred coalescing:** try to improve performance of **free** by deferring coalescing until needed. Examples:
 - Coalesce as you scan the free list for malloc
 - Coalesce when the amount of external fragmentation reaches some threshold

Implicit Lists: Summary

- Implementation: very simple
- Allocate cost:
 - linear time worst case
- Free cost:
 - constant the signment Project Exam Help
 - even with coalescing
- Memory usage: https://powcoder.com

 - will depend on placement policy
 First-fit, next-fit or best-fit
- Not used in practice for malloc/free because of lineartime allocation
 - used in many special purpose applications
- However, the concepts of splitting and boundary tag coalescing are general to all allocators