## **Method 1: Implicit List**

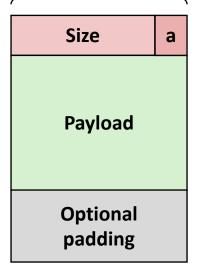
- For each block we need both size and allocation status
  - Could store this information in two words: wasteful!
- Standard trick
  - If blocks aradiging different project approximation of the palways 0
  - Instead of storin

located/free flag

When reading si https://eduassistpro.github.io/

## Add WeChat edu\_assist\_pro

Format of allocated and free blocks



a = 1: Allocated block

a = 0: Free block

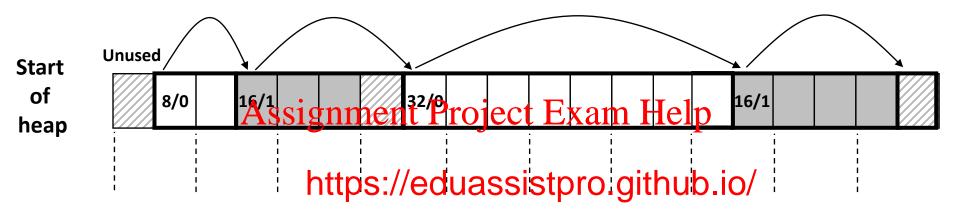
Size: block size

Payload: application data (allocated blocks only)

## **Header Example**

- Size = 16, allocation status = 1
  - **1**6 = 00010000
    - ← AssignmentiPeoject Exam Help →
      - 0 https://eduassistpro.github1io/
        - Add WeChat edu\_assist\_pro
- Need to "zero out" the LSB to get the size
- -2 = 11111110
  - Least significant bit is 0
- Bitwise AND with -2 sets LSB to 0

## **Detailed Implicit Free List Example**



Double-word aligned

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Free blocks: unshaded

Headers: labeled with size in bytes/allocated bit