LRU cache Implementation Large Test File (1) is for my large test case, I used the text from namet namah (2) My capacity for my large 1000 (3) Left Rotations= 115,046 Right Rotations = Ng non \$ 186026 (4) Ill Size = number of words = 27,762 (5) Number Rotations per item = 10.844 6) 7,206 remorals/cache misses NOTES: I thought mynumber of removals was interesting. I thought there would be more. Maybe I implemented it correctly, but counted from up wrong with my festing Moderate test file 1 O I used the contents of 2 poems as my test case Ly english words as keys I sa I used 50 as my capacity Left = 1018 Right = 1043 (4) size=397 5) SARCE BAY 6. 702 rotations ber item 6) 208 remordis is didn't change bessed on dift cache capacities

Moderate Test 2

- alphabet, the upperase alphabet and a series of numbers, with note repeating values
- 2 Capacity 10
- 3 Left 134 Right 81
- 49 73 Size
- (5) 2.9726 rotations per Hem
- (6) 70 rache misses
- DI didn't notice that much of a difference

  Is the one thing I did notice was that

  the number of removals on my moderate

  test 2 was nire that

  Lothis could be due to the felot that all

  of the keys in my moderate test 2

  were unique, so more items here to be

  inscreed and removed them my was moderate

  test one where there were repeating works.

Hash Table Analysis Part a Table size m= 7 LOad factor x = 1/2 h(x) = x 070 m = x 070 7 Insert Insert 15 = n(19)= 1590 = 1 so insert X=1/7 < 1/2 Insert 22 In(22) = 22907=1= (k+12)90=2390=250 14ser+ Insert 36= n(36)=369,7=1=(36+12)9,0=379,7=2 = (38 m+22)9,7= 5 soingert X=3/7 61/2 Remove 22=h(22) = 22 % = 1 (don't find 22 thore) L> = (k+12) % 707=73 % 7=2=>22 found, remove U 1 2 3 4 5 6 Find 36 h 130= 360707= 1,36 not found = 370707=2,36 not found = (K+22) 90 = 40 907-5 => 36 found theat

