### 1. results

- a. experiment 1, 3 reducers
  - first partition first 5 lines

0001MeE7B7JPCWj Hslz3NRPzxugmQlH9s1UW1ku3jPc79T73HdtFxGJ 0001lcFyJCuKI4l vRlpXC3AuprUAMabMLgsIeSZxURRHKS0mi9VprSX 00023bbrDdDCyzn Un47nRNdoCLyDoh9irbhbRDuxIRgxB4HctA7Wubd 0006rvR9W2eYJL5 87fUZNdKD6C12lFoDagEcrJxZXce4sPTn4X57Qas 0008P8NCnnLVhJh qmRAduMXpSRodW8PCiPDtCqc5oJqLCuJaix9YFLp

### ii. first partition last 5 lines

uBzMclnb4BrIgSE xT4xOrljPtE6dQ1sMDxkXkRh61SDg19plXmSsBL7 uBzOnfEMTEscUym eK2Hzh7YvRTZ61AnYGblttfiyMp5geeSQiHSIKIb uBzT9bhVvzS5eyR ztZrqo8M9DlUgnTt7mnljR6Kry9FYIQPcYdd64sH uBzUHxyW2v0ODya xYzCL7mClB5eGDgKOd6VTE4ZYUIbbGeJ3EvMOCRN uBzXtBJCW0vWEXN YLfTYda460OgzLfco8W2PN9Pz4MLr2Lv5vOKo0cB

### iii. second partition first 5 lines

uBzd5DWxW3fLcvK IQNgsWelS7EZq12UqdFdYXkrQuXQFXur2UKhqzUa uBzlWfMyOlBnOWB FZ9S7ijdUz6MOkgx28EKyhp3E9grLcs9X99SvTX5 uBznkyQreR9j9I1 2jDrHRBW1fvVq9S78AdfCuqUxURdFPGE3kpnaT7I uBzxrzv6N8VajVt 54bVXNGNsMjU7q1bl9Sly4cIVVM02X85d4SmdOFb uC00URcQUgvjexk ZlQuQotvmFalmmU5gvfTzAtddG5oUWGEfeNJDWj8

## iv. second partition last 5 lines

y7Wea8amVVXljbK xNP9frlbn85fdCYjhareos2fSl7dZUzoxGvIBddI y7WljZn3i3VhyXM zOBd2UnM7Phq9iRxNsbpOsOJBT02jUSbetnsSOvQ y7WmppVGH62IRO0 gJqbCaT2P7Om83LSRCrnKcKYU3u3Wlox8rzPkes6 y7WqbDUroIY5sVV lNiqp5qQ1u9EerIUV23WN7qFbbH6Hjo57FfDes4D y7WqkS7SnC3vE6X o4EzvsIPxXUfNZngcxmkNHV7LDhUYWJ4EDpVqsPf

### v. third partition first 5 lines

y7WvD1SJaukLSY8 T6Ly6XHSx1Ft0g1v5oHsSsM0JPxqlXjx0FRiVk09 y7Wx9RMaxR1cDcj b6ymMuQ7PARKrS7Up9RGVBr0bVuFiahUXSs0yyZY y7X4bv5HHAT4E1i PxtGaitD0dx8FXff6CIgyl78QR8Rul2b9VuE7UhC y7XAVYtScixpqaY 8DMRPaulg9yV73VV8sXRxeF0YkuUM0FimdVu505G y7XAsgrMP2XphtF W2rTP6bEPbAvxmYm9adb5tKJeBIVUQ13Ds0f6cD4

### vi. third partition last 5 lines

zzzlsNEhLA6XXr4 358YpGifuI8Wvb0f917CLkUTmcIMXn9UFpWFAiNm zzznxiU8di17hBk zMz4cONqHlhp8PMnHaLtU7VB2pDlrS50o5kKYbip zzzp2osLN7Didmk NA759V0qkWGK2Nfd8EvPc5FL9FgAIUbIX52JR4o3 zzzuoUL6N4qMAFu JzmJyyjISlKaSWPi50bPcZoT9hEtHg3VDYQPTIco zzzz0yxLW36DFE3 U32iJXn1rJyHPFOCvXE0bCDsLT2pgv1IdMqBaeFI

#### b. experiment 2, 3 reducers

i. first partition first 5 lines

002CGxZhgFpf49N 5MVBj8BvxZ0FehM35RlG6ZdL6D0TVeps4smgONDS 003mP2h9e7AyoAe 6v7iQlrNBhxuLBTdp29klelAMqx6Ue9UbmjUhC6p 006RUBroI7rpApL ih18mB1bcyyra1L3z3eIc4yY5cStC9i5fCBXqVNB 00872Qdhzkuu0Mo gJv88FkDVPAFNgYA4JCbFRijAQG0vf96Y1JPtic8 00AefQkuOBTpGTN RQ4ePIfSIkaN4cVIbMW9eUpd70DXV2Aj5LbLsLLV

# first partition last 5 lines

ii.

zzqB7va7D8h42Ex 08YmaCl90U838QxPB3eby9ApP0GvNEPTnltCjvIf zzspLP28V0duotr 24od7e460L72E7a4W9pnzGpmvbzuajeZR8Vj6UDP zzxZrATXhf7FU0B suICYFi1sUFqLbENYAx8aGzZd4A3xtcPkGm3nJvW zzxuUEUGmDrfLNl DZEWS7p6Rl0Fq72rVbP1HIxr6h7mhEbNJzi2nU8Q zzzLyRRmSPdcdgF ql7TSuKJy216BRb07R7n5M4Mn3FC6TIcijqtycTp

### iii. second partition first 5 lines

000dJJ1TKvD9JY3 qyEIVmbqdmMQi27871R6OncsDoJRAMxp0MjfEGtW 001SZ6pXMRQSVxz vm3eElvShsy3lkQ6MaiP7UejGmq1Rsu2dQl2VdmM 004F5uBm6kOLGNO mXJ9JR9JJdigC6pPSMycjRWfApiTut85aprQBeTK 005kQgIUadn1LVf xiCaX6MS5rzasWchpHV7obtzc3jLnWM8nFljbLaB 006vIna7xHPIo0n xlsEfcRhv4BAOg8Ym20yQUhxgb7xvnoSrJgK50vH

### iv. second partition last 5 lines

zzt1VC1Mhqikfai D60hN3JzG9nDyDCTcGimKMzE9vdMSuIdjdj8AClF zztnQBdW55iK9i2 U6s89PtSYrx96YfmDe643Kq0GNeT7hIXQ77ELoCp zzv2rbSSmsHoUdV 2h4Tiz80WSNUKNTthAtn7AF7I3mIGiebmUhW05la zzv61egIoJMSJxr nS90jjxL9FekkKdHXhjRvdibIZSPYqQ7mAVRugqE zzyzcFdkM8StXh1 Vg2N3sG7kNcvNMu693xGZTV5BMNPi5vLUTCyyN8P

### v. third partition first 5 lines

000ckhLmtS7AeAE 4D2NVCzvxJxrXCeX0NIXDrVx2gxNQp3knjt4rVzv 002DLQWKhfVtQPz ItqHFG2F0Het6RZUF0DMRj2s9MYhXJFgj3Qu9Oqc 003kpn0EVZ87c6P MdT2kMCgkoxGsmUsd0T0aiaYyR7cgVHJiX1o0SX5 004RAu0FEX0dHVq 2BEmKo5vpuiGfcdnT5gt0e5aV3bB7VIx4KaQvy18 0078Z6P9xiTXegV ri3hj4V0W4lcqfERb0eAtLfnia1NRxvnXEXhX15r

## vi. third partition last 5 lines

zzuY7ZRialXU83K p1HkN9qVzJysUvn2I71VgMC2B0IgZv28WX6fy8Bt zzvSgMJd74UxzzT HarAmHL70H8gLi41mEmpYudQCi9D0YWU7onWQ5EH zzvl16DbRBlRFkM TAPWXs5UrhB9Zz00hejczPEareoxrDWYUq0W203l zzvxfWNSDRMgdmY tF0mgSnjo5VluChUVSXyzSKlbs01YooARQCxxU7k zzxe4LDV1mQeUWp 2q5PF7MzFMCVkSz1EGkWYngpWt0BLkUH4TeXZzDC

### 2. strategy

- a. my strategy was to best mimic the "TotalOrderPatitioner" as best I could
- 3. arguments
  - a. no arguments were needed