

|         | O | E | C | S | order | case |
|---------|---|---|---|---|-------|------|
| 4C0 = 1 | 0 | 0 | 0 | 0 | 1     | 0000 |
| 4C1 = 4 | 1 | 0 | 0 | 0 | 2     | 1000 |
|         | 0 | 1 | 0 | 0 | 3     | 0100 |
|         | 0 | 0 | 1 | 0 | 3     | 0010 |
|         | 0 | 0 | 0 | 1 | 3     | 0001 |
| 4C2 = 6 | 1 | 1 | 0 | 0 | 8     | 1100 |
|         | 0 | 1 | 1 | 0 | 5     | 0110 |
|         | 0 | 0 | 1 | 1 | 3     | 0011 |
|         | 1 | 0 | 1 | 0 | 7     | 1010 |
|         | 0 | 1 | 0 | 1 | 4     | 0101 |
|         | 1 | 0 | 0 | 1 | 6     | 1001 |
| 4C3 = 4 | 1 | 1 | 1 | 0 | 9     | 1110 |
|         | 0 | 1 | 1 | 1 | 10    | 0111 |
|         | 1 | 1 | 0 | 1 | 11    | 1101 |
|         | 1 | 0 | 1 | 1 | 12    | 1011 |
| 4C4 = 1 | 1 | 1 | 1 | 1 | 13    | 1111 |

| Os | Es | Cs | Ss | order        |
|----|----|----|----|--------------|
| 0  | 0  | 0  | 0  | 1            |
| 0  | 0  | 0  | 0  | 2            |
| 0  | 0  | 0  | 0  | removed in 1 |

remove by index, take the smaller index

| Od | Es | Cs | Ss | order   |
|----|----|----|----|---------|
| 1  | 0  | 0  | 0  | 3       |
| 0  | 0  | 0  | 0  | removed |
| 0  | 0  | 0  | 0  | removed |
| 0  | 0  | 0  | 0  | removed |

take the later create date

| Os | Ed | Cs | Sd | order        |
|----|----|----|----|--------------|
| 0  | 1  | 0  | 1  | 4            |
| 0  | 0  | 0  | 1  | removed in 3 |
| 0  | 1  | 0  | 0  | removed      |
| 0  | 0  | 0  | 0  | removed in 1 |

take smaller E

| Os | Ed | Cd | Ss | order        |
|----|----|----|----|--------------|
| 0  | 1  | 1  | 0  | 5            |
| 0  | 1  | 0  | 0  | removed in 4 |
| 0  | 0  | 1  | 0  | removed in 3 |
| 0  | 0  | 0  | 0  | removed in 1 |

take smaller enrollment date

| Od | Es | Cs | Sd | order        |
|----|----|----|----|--------------|
| 1  | 0  | 0  | 1  | 6            |
| 0  | 0  | 0  | 1  | removed in 3 |
| 1  | 0  | 0  | 0  | removed      |
| 0  | 0  | 0  | 0  | removed in 1 |

use source sort

| Od | Es | Cd | Ss | order        |
|----|----|----|----|--------------|
| 1  | 0  | 1  | 0  | 7            |
| 0  | 0  | 1  | 0  | removed in 3 |
| 1  | 0  | 0  | 0  | removed in 6 |
| 0  | 0  | 0  | 0  | removed in 1 |

take later C

| Od | Ed | Cs | Ss | order        |
|----|----|----|----|--------------|
| 1  | 1  | 0  | 0  | 8            |
| 0  | 1  | 0  | 0  | removed in 4 |
| 1  | 0  | 0  | 0  | removed in 6 |
| 0  | 0  | 0  | 0  | removed in 1 |

take smaller index

| Od | Ed | Cd | Ss | order        |
|----|----|----|----|--------------|
| 1  | 1  | 1  | 0  | 9            |
| 1  | 1  | 0  | 0  | removed in 8 |
| 0  | 1  | 1  | 0  | removed in 5 |
| 1  | 0  | 1  | 0  | removed in 7 |
| 1  | 0  | 0  | 0  | removed in 2 |
| 0  | 1  | 0  | 0  | removed in 4 |
| 0  | 0  | 1  | 0  | removed in 3 |
| 0  | 0  | 0  | 0  | removed in 1 |

take latest C

| Os | Ed | Cd | Sd | order |
|----|----|----|----|-------|
| 0  | 1  | 1  | 1  | 10    |

take smallest E

| Od | Ed | Cs | Sd | order |
|----|----|----|----|-------|
| 1  | 1  | 0  | 1  | 11    |

use source sort

| Od | Es | Cd | Sd | order |
|----|----|----|----|-------|
| 1  | 0  | 1  | 1  | 12    |

take later create date

| Od | Ed | Cd | Sd | order |
|----|----|----|----|-------|
| 1  | 1  | 1  | 1  | 13    |

take latest C