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1- using 4-bit numbers to save space, multiply 4*3

2- using 4-bit numbers to save space, divide 7/3

1- Convert the following C code to MIPS. Assume the address of base array is associated with \$50, n is associated with \$51, position is associated with \$t0, c is associated with \$t1, d is associated with \$t2, and swap is associated with \$t3

```
for (c = 0; c < (n - 1); c++)
             position = c;
             for (d = c + 1; d < n; d++)
              if (array[position] > array[d])
                position = d;
             }
             if (position != c)
              swap = array[c];
                                                bne Sto, St, Swap
              array[c] = array[position];
                                        , IF'.
              array[position] = swap;
                                                  addi Iti, Sti, 1
           }
                       $ t1 , $ 2610
           move
                                          Grap: (w $13, 541 ($50)
 100P1:
                                                   In SET, 300(5:0)
           addi
                      5t1, 5t4, EXT
                                                   Sur $ 47, $41 ($50)
                      5to ,521
                                                   Su 363, 500 ($50)
                      出2,541,1
                                                    add: 'sti, $t1, 1
 1008 2 1
                      $2,$51 16
             bge
                                                      10001
                      5+5, $t0 (550)
             1~1
                      566, $62 ($50)
                                             811.
                      $15, $16, incr.
                     $t0, $t2
                       $t2, $t2, 1
            addi
incr:
               10007
```