Radix sort 1 - preamble

```
1 void radix_sort(int a[], int n, int a_bound)
2 {
3
4    int exp_max=log10((double)a_bound)+1;
5    int a_sort[n];
6   int i,exp;
```

Radix sort 2 - loop

```
for (exp=0; exp<exp\_max; exp++)
8
          int buckets [10] = \{0\}, digit=pow(10, exp);
9
10
           for(i=0;i<n;i++) buckets[a[i]/digit%10]++;
11
12
13
           for (i=1; i<10; i++) buckets [i]+= buckets [i-1];
14
15
           for (i=n-1; i>=0; i--)
               buckets[a[i]/digit%10]--:
16
               a_sort[buckets[a[i]/digit%10]]=a[i];
17
18
19
           for (i = 0; i < n; i++)
20
             a[i]=a_sort[i];
21
22
23
```