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

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