#include <stdio.h>

#define Max(a, b) ((a)>(b)?(a):(b))

int d[300];

int g[300];

int main()

{

int m, i;

char ch;

while (1)

{

ch = getchar();

if (feof(stdin))

break;

if (ch != '\n' && ch != ' ')

{

d[ch]++;

g[ch]++;

}

}

while (1)

{

m = 0;

for (i = 0; i < 300; i++)

m = Max(m, d[i]);

if (m == 0)

break;

for (i = 0; i < 300; i++)

if (g[i])

{

if (d[i] == m)

{

putchar('#');

d[i]--;

}

else

putchar(' ');

}

putchar('\n');

}

for (i = 0; i < 300; i++)

if (g[i])

putchar(i);

putchar('\n');

return 0;

}