/\*

PROG: scrab

LANG: C++

ID: hayk.sa1

\*/

#include <stdio.h>

#include <string.h>

char s[30], a[30];

int d[30], g[30];

int cost[30] = {1, 3, 3, 2, 1, 4, 2, 4, 1, 8, 5, 1, 3, 1, 1, 3, 10, 1, 1, 1, 1, 4, 4, 8, 4, 10, 0};

int main()

{

FILE\* dict = fopen("dict.txt", "r");

freopen("scrab.in", "r", stdin);

freopen("scrab.out", "w", stdout);

char ch;

int n, m, p, i;

scanf("%d", &n);

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

{

getchar();

ch = getchar();

if (ch == '#')

d[26]++;

else

d[ch-'A']++;

}

m = 0;

getc(dict);

while (1)

{

fscanf(dict, "%s", a);

if (feof(dict))

{

printf("%s\n", s);

return 0;

}

memcpy(g, d, sizeof(d));

for (p = i = 0; a[i]; i++)

if (g[a[i]-'A'])

{

g[a[i]-'A']--;

p += cost[a[i]-'A'];

}

else

if (g[26])

g[26]--;

else

break;

if (a[i] == 0 && m < p)

{

strcpy(s, a);

m = p;

}

}

return 0;

}