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PROG: lexicon

LANG: C++

ID: hayk.sa1

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#include <stdio.h>

#include <string.h>

#define Min(a, b) ((a)<(b)?(a):(b))

char s[1610];

int len[1010];

char w[1010][25];

int d[1610];

int t[30][1610];

int end(int k, int p)

{

int i;

for (i = 0; w[k][i] && t[w[k][i]-'a'][p] != -1; i++)

p = t[w[k][i]-'a'][p]+1;

if (w[k][i])

return -1;

return p-1;

}

int main()

{

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

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

int n, l, m, i, j;

scanf("%d%d%s", &n, &l, s);

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

{

scanf("%s", w[i]);

len[i] = strlen(w[i]);

}

d[l] = 0;

memset(t, -1, sizeof(t));

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

{

t[s[i]-'a'][i] = i;

for (j = i-1; j >= 0 && s[j] != s[i]; j--)

t[s[i]-'a'][j] = i;

}

for (i = l-1; i >= 0; i--)

{

d[i] = l-i;

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

{

m = end(j, i);

if (m != -1)

d[i] = Min(d[i], d[m+1]+m-i+1-len[j]);

}

}

printf("%d\n", d[0]);

return 0;

}