/\*

PROG: cheappal

LANG: C++

ID: hayk.sa1

\*/

#include <stdio.h>

#include <string.h>

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

int c[30];

char s[2010];

int d[2][2010];

int main()

{

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

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

char ch;

int n, sw, i, j, k, l;

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

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

{

scanf("%c%c%d%d", &ch, &ch, &k, &j);

c[ch-'a'] = Min(k, j);

}

sw = 0;

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

{

for (j = i+1; j < n; j++)

if (s[i] == s[j])

d[sw^1][j] = d[sw][j-1];

else

d[sw^1][j] = Min(d[sw][j]+c[s[i]-'a'], d[sw^1][j-1]+c[s[j]-'a']);

sw ^= 1;

}

printf("%d\n", d[sw][n-1]);

return 0;

}