

```
1  #include <stdio.h>
2  #include <queue>
3  #include <vector>
4  #include <utility>
5  using namespace std;
6
7  typedef pair <int, int> ii;
8  typedef pair <double, ii> dii;
9  typedef unsigned long long ull;
10
11 int main(void){
12     int t, c, leitura;
13     ull ac = 0, multa = 0, dia = 0;
14     priority_queue < dii, vector <dii>, less <dii> > Q;
15     while((leitura = scanf("%d %d", &t, &c)) != EOF || !Q.empty()){
16         if(leitura != EOF){
17             multa += c;
18             Q.push(dii(double(c)/t, ii(t, c)));
19         }
20         if(dia == 0 && !Q.empty()){
21             dia = Q.top().second.first;
22             multa -= Q.top().second.second;
23             Q.pop();
24         }
25         if(leitura == EOF && dia){
26             while(!Q.empty()){
27                 ac += multa * dia;
28                 dia = 0;
29                 if(!Q.empty()){
30                     dia = Q.top().second.first;
31                     multa -= Q.top().second.second;
32                     Q.pop();
33                 }
34             }
35         }
36         dia--; ac += multa;
37     }
38     printf("%llu\n", ac);
39     return 0;
40 }
```