```
1
2
     const int MAXN = 8010;
     const ll INFINITE = 1e17;
 3
 4
     ll dp[8010][810];
 5
     ll v[8010];
 6
7
     int n;
 8
     ll cost(int x, int y) {
 9
          if(x>y) return 0;
          ll sum = v[y] - (x ? v[x-1] : OLL);
10
11
          return sum*(y-x+1);
12
     }
13
14
     void fill(int g, int lmin, int lmax, int pmin, int pmax) {
          if(lmin>lmax) return;
15
16
          int lmid = (lmin+lmax)/2;
17
          dp[lmid][g] = INFINITE;
18
          ll minp;
19
          FOR(i,pmin, pmax+1) {
               ll ncost = dp[i][g-1] + cost(i+1,lmid);
if(ncost < dp[lmid][g]) {</pre>
20
21
22
                   dp[lmid][g] = ncost;
23
24
25
26
27
28
29
30
31
32
33
34
35
36
                   minp = i;
               }
          fill(g,lmin,lmid-1,pmin,minp);
          fill(g,lmid+1,lmax,minp,pmax);
     }
     int main() {
          int g;
          cin >> n >> g;
          FORO(i,n) {
               cin >> v[i];
               if(i) \ v[i] += v[i-1];
37
38
          FORO(i,n) {
               dp[i][1] = cost(0,i);
39
40
          FOR(i,2,q+1) {
41
               fill(i,0,n-1,0,n-1);
42
43
          cout \ll dp[n-1][g] \ll endl;
44
          return 0;
45
     }
46
```