// 优先队列

int n, k, a[305];

priority\_queue<int, vector<int>, greater<int> > Q;

int main()

{

//FIN;

cin >> n >> k;

rep(i, 1, n) cin >> a[i]; // n = 4

LL ans = 0, pre = 0, tol = 0;

rep(i, 1, k) Q.push(a[i]); // k = 3

int id = k+1; // id = 3+1 = 4

while(!Q.empty())

{

ans = pre+Q.top(); // min

Q.pop(); //chu

pre = ans; //qianyige

tol += ans; // zong he

if(id <= n) // 4 <= 4

{ Q.push(a[id]); id++; } //CONTINUE

}

cout << tol << endl;

return 0;

}