#include <iostream>

#include <cstdio>

#include <cstring>

#include<algorithm>

#include<cmath>

#define INF 0x3f3f3f3f

using namespace std;

int n,k;

double a[10010];

bool judge(double val)

{

int ans(0);

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

ans+=(int)(a[i]/val);

if(ans>=k)return 1;

else return 0;

}

int main()

{

scanf("%d%d",&n,&k);

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

scanf("%lf",&a[i]);

double l=0,r=INF;

for(int i=0;i<100;i++)

{

double mid=(r+l)/2;

if(judge(mid))

l=mid;

else r=mid;

}

printf("%.2f\n",floor(l\*100)/100);

return 0;

}