import java.util.\*;

class Solution {

public int maxProfit(int[] prices, int fee) {

int n = prices.length,total=0;

int diff[] = new int[n/2];

int i=0,j=0,k=n/2;

for(i=0;i<n/2;i++)

{

diff[i]= prices[k]-prices[j];

k++;j++;

}

for(i=0;i<n/2-1;i++)

{

j=i+1;

if(diff[i]<diff[j])

diff[i]=0;

System.out.println("in---"+diff[i]);

}

System.out.println("in---"+diff[i]);

//System.out.println("The maximum profit can be achieved by:");

Arrays.sort(diff);

for(i=0;i<n/2;i++)

{

System.out.println("inside for");

System.out.println("val="+diff[i]);

if( diff[i] >0)

{

System.out.println(".Buying at prices["+k+"]");

//System.out.println(."Selling at prices["+j+"]");

total+=diff[i]-fee;

}

}

//System.out.println(total);

return total;

}

}