```
#include <iostream.h>
void docfile(int a[], int &n);
void algorithm(int a[], int n);
int a[1000001],n;
int main()
{
        docfile(a,n);
        algorithm(a,n);
        return 0;
}
void docfile(int a[], int &n)
{
        FILE *f;
        f=fopen("VD1.inp","rt");
        fscanf(f,"%d",&n);
        for (int i=1;i<=n;i++)
        fscanf(f,"%d",&a[i]);
        fclose(f);
}
int max(int a,int b)
{
        return a>b?a:b;
}

void algorithm(int a[], int n)
{        int maxsofar=0;
         int maxendinghere=0;
         for (int i=1; i<=n;i++)
         {
          maxendinghere=max(maxendinghere+a[i],0);
          maxsofar=max(maxsofar,maxendinghere);
         }
        cout<<maxsofar<<endl;
}
/*
VD1.INP
7
4 -5 6 -4 2 3 -7
*/
```