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#include<iostream.h>
#define maxn 1000001
void docfile (int a[],int &n);
void ghifile(int a[],int n);
long long tichmax(int a[],int n);
int a[maxn];
int n;
int main()
{
    docfile(a,n);
    ghifile(a,n);
    return 0;
}
void docfile (int a[], int &n)
{
    FILE *f;
    f=fopen("VD3.INP","rt");
    fscanf(f,"%d",&n);
    for(int i=1;i<=n;i++)
        fscanf(f,"%d",&a[i]);
    fclose(f);
}
void ghifile(int a[],int n)
{
    FILE *f;
    f=fopen("VD3.OUT","wt");
    fprintf(f,"%d",tichmax(a,n));
    fclose(f);
}
void exch(int &x, int &y)
{
    int t=x;x=y;y=t;
}
void quicksort(int a[],int l,int r)
{
    int x=a[(l+r)/2];
    int i=l;
    int j=r;
    do {
        while (a[i]<x) i++;
        while (a[j]>x) j--;
        if (i<=j)
            exch(a[i++],a[j--]);
    }
    while (i<j);
    if (l<j) quicksort(a,l,j);
    if (i<r) quicksort(a,i,r);
}
long long tichmax(int a[maxn],int n)
{

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    quicksort(a,1,n);
    long long max;
    long long bo1=a[1]*a[2]*a[n];
    long long bo2=a[n-2]*a[n-1]*a[n];
    max=bo1>bo2?bo1:bo2;
    return max;
}
/*
VD3.INP
9
5 7 8 9 -9 6 -8 -3 5
*/
```