13.MAXIMUM VALUE

#include<stdio.h>

int sumOfDigits(int num)

{

int sum=0;

while(num>0)

{

sum+=num%10;

num/=10;

}

return sum;

}

int main()

{

int n;

printf("Enter the number of elements: ");

scanf("%d",&n);

if(n<=1)

{

printf("Invalid input.\n");

return 1;

}

int nums[n];

printf("Enter the positive integers:\n");

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

{

scanf("%d",&nums[i]);

if(nums[i]<= 0)

{

printf("Invalid input.\n");

return 1;

}

}

int maxSum = 0;

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

{

for(int j=i+1;j<n;j++)

{

if(sumOfDigits(nums[i])==sumOfDigits(nums[j]))

{

int currentSum=nums[i]+nums[j];

if(currentSum>maxSum)

{

maxSum=currentSum;

}

}

}

}

printf("Maximum sum with equal digit sums: %d\n", maxSum);

return 0;

}

OUTPUT

