**HƯỚNG DẪN CHẤM**

**Bài 1: Cộng hai số (5 điểm)**

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| **Test** | **SUM.INP** | **SUM.OUT** |
| 1 | 2  3 | 5 |
| 2 | 1234  56 | 1290 |
| 3 | 9099  2012 | 11111 |
| 4 | 1234567890  2012 | 1234569902 |
| 5 | 45454545454545454545454545454545454545454545454545  54545454545454545454545454545454545454545454545454 | 99….9( 50 số 9) |

**Lời giải tham khảo:**

var s1,s2: string;

m: array[1..120] of integer;

i,c,l1,l2 : integer;

begin

assign(input, 'input.txt'); reset(input);

assign(output, 'output.txt'); rewrite(output);

readln(s1); readln(s2);

l1:=length(s1); l2:=length(s2);

while(length(s1)<110) do s1:='0'+s1;

while(length(s2)<110) do s2:='0'+s2;

i:=1;c:=0;

while (i<=l1)or(i<=l2) do begin

c:=c+ord(s1[length(s1)-i+1])+ord(s2[length(s2)-i+1])-96;

m[i]:=c mod 10;

c:=c div 10;

inc(i);

end;

if c>0 then begin m[i]:=c;inc(i) end;

l1:=i;

for i:=l1-1 downto 1 do write(m[i]);

end.

**Bài 2: Số nguyên tố (5 điểm)**

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| **Test** | **PRIME.INP** | **PRIME.OUT** |
| 1 | 6 | 3 3 |
| 2 | 992 | 73 919 |
| 3 | 50 | 3 47 |
| 4 | 4 | 2 2 |
| 5 | 66 | 5 61 |

var n,i : integer;

function IsPrime(x:integer):boolean;

var i:integer;

begin

i:=2;

while (i\*i <= x) and (x mod i <> 0) do inc(i);

IsPrime:= i\*i > x;

end;

begin

assign(input,'ONE.IN'); reset(input);

assign(output,'ONE.OUT'); rewrite(output);

read(n);

for i:=2 to n div 2 do

if IsPrime(i) and IsPrime(n-i) then

begin write(i,' ',n-i); break end

close(input);

close(output);

end.

**Bài 3: Text**

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| **Test** | **PRIME.INP** | **PRIME.OUT** |
| 1 | This is an example. | sihT si na elpmaxe. |
| 2 | Thisisveryveryverylongword | drowgnolyrevyrevyrevsisihT |
| 3 | This test is very! easy and short.  But it's ,. mo:re difficult than first. | sihT tset si yrev! ysae dna trohs.  tuB ti's ,. om:er tluciffid naht tsrif. |
| 4 | This file for check your programm an  d ; to check whether your prog$ramm reverses "words" correctly  (or] nOt,!  We hope that your~programm\_ will:;^ &cope just +|perfectly/  :" ", . /\ -""::::: % &\*&$ @` ã„€ç¨ :-( [{|]  2  E = M \* c  :-)  {no comments}  #Good$LuCk\*  "jury" | sihT elif rof kcehc ruoy mmargorp na  d ; ot kcehc rehtehw ruoy gorp$mmar sesrever "sdrow" yltcerroc  (ro] tOn,!  eW epoh taht ruoy~mmargorp\_ lliw:;^ &epoc tsuj +|yltcefrep/  :" ", . /\ -""::::: % &\*&$ @` ã„€ç¨ :-( [{|]  2  E = M \* c  :-)  {on stnemmoc}  #dooG$kCuL\*  "yruj" |
| 5 |  |  |

program word\_order;

procedure solve;

var i:integer;

word,s:string;

mn:Set of char;

begin

mn:=['A'..'Z','a'..'z'];

Assign(input,'input.txt');

ReSet(input);

Assign(output,'output.txt');

ReWrite(output);

While Not Eof do begin

ReadLn(s);

i:=1;

While i<=length(s) do begin

word:='';

While (i<=length(s)) and (s[i] in mn) do begin

word:=s[i]+word;

inc(i);

end;

Write(word);

While (i<=length(s)) and not(s[i] in mn) do begin

Write(s[i]);

Inc(i)

end;

end;

WriteLn;

end;

Close(input);

Close(output);

end;

begin

solve;

end.

**Bài 4 Dãy 0-1**

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| **Test** | **DAYSO.INP** | **DAYSO.OUT** |
| 1 | 5  1 0 1 0 1 | YES |
| 2 | 6  0 1 0 1 1 1 | NO |
| 3 | 8  1 1 0 1 0 1 0 1 | NO |
| 4 | 10  0 1 0 1 0 1 0 1 0 1 | YES |
| 5 | 20  0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 | YES |

program Day\_0\_1

var a:array[1..10]of integer;

flag,i,k,n:integer;

begin

Assign(input,'input.txt');

ReSet(input);

Assign(output,'output.txt');

ReWrite(output);

readln(n);

for i:=1 to n do

readln(a[i]);

i:=1;

while i<=n-1 do

begin

flag:=0;

if ((a[i]=1)and(a[i+1]=0))or((a[i]=0)and(a[i+1]=1))

then flag:=1

else begin

write('NO');flag:=0;

readln;halt;

end;

i:=i+2;

end;

if flag=1 then write('YES');

close(input);

close(output);

end.