**HƯỚNG DẪN CHẤM**

**Bài 1: Cộng hai số (5 điểm)**

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| **Test** | **SUM.INP** | **SUM.OUT** |
| 1 | 23 | 5 |
| 2 | 123456 | 1290 |
| 3 | 90992012 | 11111 |
| 4 | 12345678902012  | 1234569902 |
| 5 | 4545454545454545454545454545454545454545454545454554545454545454545454545454545454545454545454545454 | 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 and ; 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$LuCk\* "jury" | sihT elif rof kcehc ruoy mmargorp nad ; ot kcehc rehtehw ruoy gorp$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 | 51 0 1 0 1 | YES |
| 2 | 60 1 0 1 1 1 | NO |
| 3 | 81 1 0 1 0 1 0 1  | NO |
| 4 | 100 1 0 1 0 1 0 1 0 1 | YES |
| 5 | 200 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.