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| OSP | 2013 |

1. No.26

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| Bila diberi masukan bilangan 77, maka program akan memberikan keluaran …? |
| var  N,hasil: integer;  procedure solve(X:integer);  begin  if (X>1) then  begin  hasil:=hasil+1;  solve(X div 2 + X mod 2);  end;  end;  begin  readln(N);  hasil:=0;  solve(N);  writeln(hasil);  end. |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| var  N,hasil: integer;  procedure solve(X:integer);  begin  if (X>1) then  begin  hasil:=hasil+1;  writeln(hasil:7,x:7,(x div 2):7,(x mod 2):7,((x div 2)+(x mod 2)):7);  solve(X div 2 + X mod 2);  end;  end;  begin  N:=77;  hasil:=0;  writeln('hasil':7,'x':7,'div':7,'mod':7,'div+mod':10);  solve(N);  writeln(hasil);  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| x div mod div+mod hasil  77 38 1 39 1  39 19 1 20 2  20 10 0 10 3  10 5 0 5 4  5 2 1 3 5  3 1 1 2 6  2 1 0 1 7  Hasilnya adalah : 7 |

1. No.27

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| Jika program di atas diberi masukan ‘s4yA-BuK4N+oRanG aLaY!?’, maka keluarannya adalah …? |
| base := ‘QWERTYUIOPLKJHGFDSAZXCVBNM’;  kata := ‘’;  readln(kalimat);  for i:= length(kalimat) downto 1 do  begin  if pos(kalimat[i], base) > 0 then  kata:= kata & kalimat[i];  end;  writeln(kata); |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| var  base,kata,kalimat : string;  i : integer;  begin  base := 'QWERTYUIOPLKJHGFDSAZXCVBNM';  kata := '';  kalimat:='s4yA-BuK4N+oRanG aLaY!?';  for i:= length(kalimat) downto 1 do  begin  if pos(kalimat[i], base) > 0 then  begin  writeln(kalimat[i]);  kata:= kata + kalimat[i];  end;  end;  writeln(kata);  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| Y  L  G  R  N  K  B  A  YLGRNKBA. |

1. No.29

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| Apakah keluaran dari program tersebut? |
| Var  we: longint;  Z: array[1..15] of longint = (64, 19, 56, 67, 66, 82,31, 20, 67, 10, 94, 100, 57, 14, 86);  function f(x: longint; y: longint): longint;  var  a, b: longint;  begin  if (x = y) then  f := Z[y]  else  begin  a := f(x, (x+y) div 2);  b := f((x+y) div 2+1, y);  if (a < b) then f := a  else f := b  end  end;  begin  we := f(3,11);  writeln(we);  end. |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| uses crt;  var  we: longint;  Z : array[1..15] of integer;  function f(x: longint; y: longint): longint;  var  a, b: longint;  tambah,bagi,tambah\_b,bagi\_b : integer;  begin  if (x = y) then  begin  f := Z[y];  writeln('f:=z[',y,'] = ',z[y],'');  end  else  begin  tambah:=x+y;  bagi:=tambah div 2;  a := f(x, bagi);  writeln('a:= f(',x,',',bagi,')');  bagi\_b:=(x+y) div 2+1;  b := f(bagi\_b, y);  writeln('b:= f(',bagi\_b,',',y,') ');  writeln;  if (a < b) then  begin  f := a;  writeln('jika ',a,' < ',b,' maka a = ',f);  end  else  begin  f := b;  writeln('jika ',a,' > ',b,' maka b = ',f);  end;  end;  end;  begin  z[1]:=64;  z[2]:=19;  z[3]:=56;  z[4]:=67;  z[5]:=66;  z[6]:=82;  z[7]:=31;  z[8]:=20;  z[9]:=67;  z[10]:=10;  z[11]:=94;  z[12]:=100;  z[13]:=57;  z[14]:=14;  z[15]:=86;  we := f(3,11);  writeln(we);  readkey;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| f:=z[3] = 56  a:= f(3,3)  f:=z[4] = 67  b:= f(4,4)  jika 56 < 67 maka a = 56  a:= f(3,4)  f:=z[5] = 66  b:= f(5,5)  jika 56 < 66 maka a = 56  a:= f(3,5)  f:=z[6] = 82  a:= f(6,6)  f:=z[7] = 31  b:= f(7,7)  jika 82 > 31 maka b = 31  b:= f(6,7)  jika 56 > 31 maka b = 31  a:= f(3,7)  f:=z[8] = 20  a:= f(8,8)  f:=z[9] = 67  b:= f(9,9)  jika 20 < 67 maka a = 20  a:= f(8,9)  f:=z[10] = 10  a:= f(10,10)  f:=z[11] = 94  b:= f(11,11)  jika 10 < 94 maka a = 10  b:= f(10,11)  jika 20 > 10 maka b = 10  b:= f(8,11)  jika 31 > 10 maka b = 10  10 |

1. No.30

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| Apakah yang akan tercetak dari hasil pemanggilan perintah writeln(cl,',',cr)? |
| Var  s:string;  cl,cr:integer;  procedure right(l, r : integer);  forward;  procedure swap(l, r : integer);  var  c : char;  begin  if (l>=1) and (r<=length(s)) then  begin  c:=s[l];  s[l]:=s[r];  s[r]:=c;  end;  end;  procedure left(l, r : integer);  begin  inc(cl);  swap(l,r);  if (r<length(s)) then  procedure left(l, r : integer);  begin  inc(cl);  swap(l,r);  if (r<length(s)) then  right(l,r+1);  end;  procedure right(l, r : integer);  begin  inc(cr);  swap(l,r);  if (l>1) then  left(l-1,r);  end;  begin  s:='gogetgold';  left(9,1);  writeln(s);  writeln(cl,',',cr);  end. |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| uses crt;  var  s:string;  cl,cr:integer;  procedure right(l, r : integer);  forward;  procedure swap(l, r : integer);  var  c : char;  begin  if (l>=1) and (r<=length(s)) then  begin  c:=s[l];  s[l]:=s[r];  s[r]:=c;  writeln(s);  end;  end;  procedure left(l, r : integer);  begin  inc(cl);  swap(l,r);  if (r<length(s)) then  right(l,r+1);  end;  procedure right(l, r : integer);  begin  inc(cr);  swap(l,r);  if (l>1) then  left(l-1,r);  end;  begin  s:='gogetgold';  left(9,1);  writeln(s);  writeln(cl,',',cr);  readkey;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| Output Program.  dogetgolg  dggetgolo  dlgetgogo  dlgetgogo  dloetgggo  dlogtgego  dlogtgego  dloggtego  dloggtego  dlogtgego  dlogtgego  dloetgggo  dlgetgogo  dlgetgogo  dggetgolo  dogetgolg  gogetgold  gogetgold  9,8 |

1. No.31

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| Jika perintah left(9,1) diganti dengan left(5,5), apakah yang akan tercetak dari hasil pemanggilan perintah writeln(s)? |
| Var  s:string;  cl,cr:integer;  procedure right(l, r : integer);  forward;  procedure swap(l, r : integer);  var  c : char;  begin  if (l>=1) and (r<=length(s)) then  begin  c:=s[l];  s[l]:=s[r];  s[r]:=c;  end;  end;  procedure left(l, r : integer);  begin  inc(cl);  swap(l,r);  if (r<length(s)) then  procedure left(l, r : integer);  begin  inc(cl);  swap(l,r);  if (r<length(s)) then  right(l,r+1);  end;  procedure right(l, r : integer);  begin  inc(cr);  swap(l,r);  if (l>1) then  left(l-1,r);  end;  begin  s:='gogetgold';  left(9,1);  writeln(s);  writeln(cl,',',cr);  end. |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| uses crt;  var  s:string;  cl,cr:integer;  procedure right(l, r : integer);  forward;  procedure swap(l, r : integer);  var  c : char;  begin  if (l>=1) and (r<=length(s)) then  begin  c:=s[l];  s[l]:=s[r];  s[r]:=c;  writeln(s);  end;  end;  procedure left(l, r : integer);  begin  inc(cl);  swap(l,r);  if (r<length(s)) then  right(l,r+1);  end;  procedure right(l, r : integer);  begin  inc(cr);  swap(l,r);  if (l>1) then  left(l-1,r);  end;  begin  s:='gogetgold';  left(5,5);  writeln(s);  writeln(cl,',',cr);  readkey;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| gogetgold  gogegtold  gogtgeold  gogogetld  gotogegld  gologegtd  gtlogegod  gdlogegot  tdlogegog  tdlogegog  5,4 |

1. No 32

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| Bila kita memanggil prosedur tulis(30,30), berapakah jumlah ‘\*’ yang tertulis? { |
| procedure tulis(n,m:integer);  var  i,j,k:integer;  begin  for i:=1 to n do  begin  for j:=1 to (n div m) do  for k:=1 to m do  writeln('\*');  for j:=1 to (n mod m) do  writeln('-');  end;  end; |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| Uses wincrt;  procedure tulis(n,m:integer);  var  i,j,k:integer;  begin  for i:=1 to n do  begin  for j:=1 to (n div m) do  for k:=1 to m do  writeln('i = ',i,’\*’,' j = ',j,’\*’,' k = ',k,'\*');  for j:=1 to (n mod m) do  writeln('-');  end;  end;  var  P,L: integer;  begin  P:=30;  L:=30;  tulis(P,L);  readkey;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| I J K  i = 1 \* j = 1 \* k = 1 \*  i = 1 \* j = 1 \* k = 2 \*  i = 1 \* j = 1 \* k = 3 \*  i = 1 \* j = 1 \* k = 4 \*  i = 1 \* j = 1 \* k = 5 \*  i = 1 \* j = 1 \* k = 6 \*  i = 1 \* j = 1 \* k = 7 \*  i = 1 \* j = 1 \* k = 8 \*  i = 1 \* j = 1 \* k = 9 \*  i = 1 \* j = 1 \* k = 10 \*  i = 1 \* j = 1 \* k = 11 \*  i = 1 \* j = 1 \* k = 12 \*  i = 1 \* j = 1 \* k = 13 \*  i = 1 \* j = 1 \* k = 14 \*  i = 1 \* j = 1 \* k = 15 \*  i = 1 \* j = 1 \* k = 16 \*  i = 1 \* j = 1 \* k = 17 \*  i = 1 \* j = 1 \* k = 18 \*  i = 1 \* j = 1 \* k = 19 \*  i = 1 \* j = 1 \* k = 20 \*  i = 1 \* j = 1 \* k = 21 \*  i = 1 \* j = 1 \* k = 22 \*  i = 1 \* j = 1 \* k = 23 \*  i = 1 \* j = 1 \* k = 24 \*  i = 1 \* j = 1 \* k = 25 \*  i = 1 \* j = 1 \* k = 26 \*  i = 1 \* j = 1 \* k = 27 \*  i = 1 \* j = 1 \* k = 28 \*  i = 1 \* j = 1 \* k = 29 \*  i = 1 \* j = 1 \* k = 30 \*  i = 2 \* j = 1 \* k = 1 \*  i = 2 \* j = 1 \* k = 2 \*  i = 2 \* j = 1 \* k = 3 \*  i = 2 \* j = 1 \* k = 4 \*  i = 2 \* j = 1 \* k = 5 \*  i = 2 \* j = 1 \* k = 6 \*  i = 2 \* j = 1 \* k = 7 \*  i = 2 \* j = 1 \* k = 8 \*  i = 2 \* j = 1 \* k = 9 \*  i = 2 \* j = 1 \* k = 10 \*  i = 2 \* j = 1 \* k = 11 \*  i = 2 \* j = 1 \* k = 12 \*  i = 2 \* j = 1 \* k = 13 \*  i = 2 \* j = 1 \* k = 14 \*  i = 2 \* j = 1 \* k = 15 \*  i = 2 \* j = 1 \* k = 16 \*  i = 2 \* j = 1 \* k = 17 \*  i = 2 \* j = 1 \* k = 18 \*  i = 2 \* j = 1 \* k = 19 \*  i = 2 \* j = 1 \* k = 20 \*  i = 2 \* j = 1 \* k = 21 \*  i = 2 \* j = 1 \* k = 22 \*  i = 2 \* j = 1 \* k = 23 \*  i = 2 \* j = 1 \* k = 24 \*  i = 2 \* j = 1 \* k = 25 \*  i = 2 \* j = 1 \* k = 26 \*  i = 2 \* j = 1 \* k = 27 \*  i = 2 \* j = 1 \* k = 28 \*  i = 2 \* j = 1 \* k = 29 \*  i = 2 \* j = 1 \* k = 30 \*  i = 3 \* j = 1 \* k = 1 \*  i = 3 \* j = 1 \* k = 2 \*  i = 3 \* j = 1 \* k = 3 \*  i = 3 \* j = 1 \* k = 4 \*  i = 3 \* j = 1 \* k = 5 \*  i = 3 \* j = 1 \* k = 6 \*  i = 3 \* j = 1 \* k = 7 \*  i = 3 \* j = 1 \* k = 8 \*  i = 3 \* j = 1 \* k = 9 \*  i = 3 \* j = 1 \* k = 10 \*  i = 3 \* j = 1 \* k = 11 \*  i = 3 \* j = 1 \* k = 12 \*  i = 3 \* j = 1 \* k = 13 \*  i = 3 \* j = 1 \* k = 14 \*  i = 3 \* j = 1 \* k = 15 \*  i = 3 \* j = 1 \* k = 16 \*  i = 3 \* j = 1 \* k = 17 \*  i = 3 \* j = 1 \* k = 18 \*  i = 3 \* j = 1 \* k = 19 \*  i = 3 \* j = 1 \* k = 20 \*  i = 3 \* j = 1 \* k = 21 \*  i = 3 \* j = 1 \* k = 22 \*  i = 3 \* j = 1 \* k = 23 \*  i = 3 \* j = 1 \* k = 24 \*  i = 3 \* j = 1 \* k = 25 \*  i = 3 \* j = 1 \* k = 26 \*  i = 3 \* j = 1 \* k = 27 \*  i = 3 \* j = 1 \* k = 28 \*  i = 3 \* j = 1 \* k = 29 \*  i = 3 \* j = 1 \* k = 30 \*  i = 4 \* j = 1 \* k = 1 \*  i = 4 \* j = 1 \* k = 2 \*  i = 4 \* j = 1 \* k = 3 \*  i = 4 \* j = 1 \* k = 4 \*  i = 4 \* j = 1 \* k = 5 \*  i = 4 \* j = 1 \* k = 6 \*  i = 4 \* j = 1 \* k = 7 \*  i = 4 \* j = 1 \* k = 8 \*  i = 4 \* j = 1 \* k = 9 \*  i = 4 \* j = 1 \* k = 10 \*  i = 4 \* j = 1 \* k = 11 \*  i = 4 \* j = 1 \* k = 12 \*  i = 4 \* j = 1 \* k = 13 \*  i = 4 \* j = 1 \* k = 14 \*  i = 4 \* j = 1 \* k = 15 \*  i = 4 \* j = 1 \* k = 16 \*  i = 4 \* j = 1 \* k = 17 \*  i = 4 \* j = 1 \* k = 18 \*  i = 4 \* j = 1 \* k = 19 \*  i = 4 \* j = 1 \* k = 20 \*  i = 4 \* j = 1 \* k = 21 \*  i = 4 \* j = 1 \* k = 22 \*  i = 4 \* j = 1 \* k = 23 \*  i = 4 \* j = 1 \* k = 24 \*  i = 4 \* j = 1 \* k = 25 \*  i = 4 \* j = 1 \* k = 26 \*  i = 4 \* j = 1 \* k = 27 \*  i = 4 \* j = 1 \* k = 28 \*  i = 4 \* j = 1 \* k = 29 \*  i = 4 \* j = 1 \* k = 30 \*  i = 5 \* j = 1 \* k = 1 \*  i = 5 \* j = 1 \* k = 2 \*  i = 5 \* j = 1 \* k = 3 \*  i = 5 \* j = 1 \* k = 4 \*  i = 5 \* j = 1 \* k = 5 \*  i = 5 \* j = 1 \* k = 6 \*  i = 5 \* j = 1 \* k = 7 \*  i = 5 \* j = 1 \* k = 8 \*  i = 5 \* j = 1 \* k = 9 \*  i = 5 \* j = 1 \* k = 10 \*  i = 5 \* j = 1 \* k = 11 \*  i = 5 \* j = 1 \* k = 12 \*  i = 5 \* j = 1 \* k = 13 \*  i = 5 \* j = 1 \* k = 14 \*  i = 5 \* j = 1 \* k = 15 \*  i = 5 \* j = 1 \* k = 16 \*  i = 5 \* j = 1 \* k = 17 \*  i = 5 \* j = 1 \* k = 18 \*  i = 5 \* j = 1 \* k = 19 \*  i = 5 \* j = 1 \* k = 20 \*  i = 5 \* j = 1 \* k = 21 \*  i = 5 \* j = 1 \* k = 22 \*  i = 5 \* j = 1 \* k = 23 \*  i = 5 \* j = 1 \* k = 24 \*  i = 5 \* j = 1 \* k = 25 \*  i = 5 \* j = 1 \* k = 26 \*  i = 5 \* j = 1 \* k = 27 \*  i = 5 \* j = 1 \* k = 28 \*  i = 5 \* j = 1 \* k = 29 \*  i = 5 \* j = 1 \* k = 30 \*  i = 6 \* j = 1 \* k = 1 \*  i = 6 \* j = 1 \* k = 2 \*  i = 6 \* j = 1 \* k = 3 \*  i = 6 \* j = 1 \* k = 4 \*  i = 6 \* j = 1 \* k = 5 \*  i = 6 \* j = 1 \* k = 6 \*  i = 6 \* j = 1 \* k = 7 \*  i = 6 \* j = 1 \* k = 8 \*  i = 6 \* j = 1 \* k = 9 \*  i = 6 \* j = 1 \* k = 10 \*  i = 6 \* j = 1 \* k = 11 \*  i = 6 \* j = 1 \* k = 12 \*  i = 6 \* j = 1 \* k = 13 \*  i = 6 \* j = 1 \* k = 14 \*  i = 6 \* j = 1 \* k = 15 \*  i = 6 \* j = 1 \* k = 16 \*  i = 6 \* j = 1 \* k = 17 \*  i = 6 \* j = 1 \* k = 18 \*  i = 6 \* j = 1 \* k = 19 \*  i = 6 \* j = 1 \* k = 20 \*  i = 6 \* j = 1 \* k = 21 \*  i = 6 \* j = 1 \* k = 22 \*  i = 6 \* j = 1 \* k = 23 \*  i = 6 \* j = 1 \* k = 24 \*  i = 6 \* j = 1 \* k = 25 \*  i = 6 \* j = 1 \* k = 26 \*  i = 6 \* j = 1 \* k = 27 \*  i = 6 \* j = 1 \* k = 28 \*  i = 6 \* j = 1 \* k = 29 \*  i = 6 \* j = 1 \* k = 30 \*  i = 7 \* j = 1 \* k = 1 \*  i = 7 \* j = 1 \* k = 2 \*  i = 7 \* j = 1 \* k = 3 \*  i = 7 \* j = 1 \* k = 4 \*  i = 7 \* j = 1 \* k = 5 \*  i = 7 \* j = 1 \* k = 6 \*  i = 7 \* j = 1 \* k = 7 \*  i = 7 \* j = 1 \* k = 8 \*  i = 7 \* j = 1 \* k = 9 \*  i = 7 \* j = 1 \* k = 10 \*  i = 7 \* j = 1 \* k = 11 \*  i = 7 \* j = 1 \* k = 12 \*  i = 7 \* j = 1 \* k = 13 \*  i = 7 \* j = 1 \* k = 14 \*  i = 7 \* j = 1 \* k = 15 \*  i = 7 \* j = 1 \* k = 16 \*  i = 7 \* j = 1 \* k = 17 \*  i = 7 \* j = 1 \* k = 18 \*  i = 7 \* j = 1 \* k = 19 \*  i = 7 \* j = 1 \* k = 20 \*  i = 7 \* j = 1 \* k = 21 \*  i = 7 \* j = 1 \* k = 22 \*  i = 7 \* j = 1 \* k = 23 \*  i = 7 \* j = 1 \* k = 24 \*  i = 7 \* j = 1 \* k = 25 \*  i = 7 \* j = 1 \* k = 26 \*  i = 7 \* j = 1 \* k = 27 \*  i = 7 \* j = 1 \* k = 28 \*  i = 7 \* j = 1 \* k = 29 \*  i = 7 \* j = 1 \* k = 30 \*  i = 8 \* j = 1 \* k = 1 \*  i = 8 \* j = 1 \* k = 2 \*  i = 8 \* j = 1 \* k = 3 \*  i = 8 \* j = 1 \* k = 4 \*  i = 8 \* j = 1 \* k = 5 \*  i = 8 \* j = 1 \* k = 6 \*  i = 8 \* j = 1 \* k = 7 \*  i = 8 \* j = 1 \* k = 8 \*  i = 8 \* j = 1 \* k = 9 \*  i = 8 \* j = 1 \* k = 10 \*  i = 8 \* j = 1 \* k = 11 \*  i = 8 \* j = 1 \* k = 12 \*  i = 8 \* j = 1 \* k = 13 \*  i = 8 \* j = 1 \* k = 14 \*  i = 8 \* j = 1 \* k = 15 \*  i = 8 \* j = 1 \* k = 16 \*  i = 8 \* j = 1 \* k = 17 \*  i = 8 \* j = 1 \* k = 18 \*  i = 8 \* j = 1 \* k = 19 \*  i = 8 \* j = 1 \* k = 20 \*  i = 8 \* j = 1 \* k = 21 \*  i = 8 \* j = 1 \* k = 22 \*  i = 8 \* j = 1 \* k = 23 \*  i = 8 \* j = 1 \* k = 24 \*  i = 8 \* j = 1 \* k = 25 \*  i = 8 \* j = 1 \* k = 26 \*  i = 8 \* j = 1 \* k = 27 \*  i = 8 \* j = 1 \* k = 28 \*  i = 8 \* j = 1 \* k = 29 \*  i = 8 \* j = 1 \* k = 30 \*  i = 9 \* j = 1 \* k = 1 \*  i = 9 \* j = 1 \* k = 2 \*  i = 9 \* j = 1 \* k = 3 \*  i = 9 \* j = 1 \* k = 4 \*  i = 9 \* j = 1 \* k = 5 \*  i = 9 \* j = 1 \* k = 6 \*  i = 9 \* j = 1 \* k = 7 \*  i = 9 \* j = 1 \* k = 8 \*  i = 9 \* j = 1 \* k = 9 \*  i = 9 \* j = 1 \* k = 10 \*  i = 9 \* j = 1 \* k = 11 \*  i = 9 \* j = 1 \* k = 12 \*  i = 9 \* j = 1 \* k = 13 \*  i = 9 \* j = 1 \* k = 14 \*  i = 9 \* j = 1 \* k = 15 \*  i = 9 \* j = 1 \* k = 16 \*  i = 9 \* j = 1 \* k = 17 \*  i = 9 \* j = 1 \* k = 18 \*  i = 9 \* j = 1 \* k = 19 \*  i = 9 \* j = 1 \* k = 20 \*  i = 9 \* j = 1 \* k = 21 \*  i = 9 \* j = 1 \* k = 22 \*  i = 9 \* j = 1 \* k = 23 \*  i = 9 \* j = 1 \* k = 24 \*  i = 9 \* j = 1 \* k = 25 \*  i = 9 \* j = 1 \* k = 26 \*  i = 9 \* j = 1 \* k = 27 \*  i = 9 \* j = 1 \* k = 28 \*  i = 9 \* j = 1 \* k = 29 \*  i = 9 \* j = 1 \* k = 30 \*  i = 10 \* j = 1 \* k = 1 \*  i = 10 \* j = 1 \* k = 2 \*  i = 10 \* j = 1 \* k = 3 \*  i = 10 \* j = 1 \* k = 4 \*  i = 10 \* j = 1 \* k = 5 \*  i = 10 \* j = 1 \* k = 6 \*  i = 10 \* j = 1 \* k = 7 \*  i = 10 \* j = 1 \* k = 8 \*  i = 10 \* j = 1 \* k = 9 \*  i = 10 \* j = 1 \* k = 10 \*  i = 10 \* j = 1 \* k = 11 \*  i = 10 \* j = 1 \* k = 12 \*  i = 10 \* j = 1 \* k = 13 \*  i = 10 \* j = 1 \* k = 14 \*  i = 10 \* j = 1 \* k = 15 \*  i = 10 \* j = 1 \* k = 16 \*  i = 10 \* j = 1 \* k = 17 \*  i = 10 \* j = 1 \* k = 18 \*  i = 10 \* j = 1 \* k = 19 \*  i = 10 \* j = 1 \* k = 20 \*  i = 10 \* j = 1 \* k = 21 \*  i = 10 \* j = 1 \* k = 22 \*  i = 10 \* j = 1 \* k = 23 \*  i = 10 \* j = 1 \* k = 24 \*  i = 10 \* j = 1 \* k = 25 \*  i = 10 \* j = 1 \* k = 26 \*  i = 10 \* j = 1 \* k = 27 \*  i = 10 \* j = 1 \* k = 28 \*  i = 10 \* j = 1 \* k = 29 \*  i = 10 \* j = 1 \* k = 30 \*  i = 11 \* j = 1 \* k = 1 \*  i = 11 \* j = 1 \* k = 2 \*  i = 11 \* j = 1 \* k = 3 \*  i = 11 \* j = 1 \* k = 4 \*  i = 11 \* j = 1 \* k = 5 \*  i = 11 \* j = 1 \* k = 6 \*  i = 11 \* j = 1 \* k = 7 \*  i = 11 \* j = 1 \* k = 8 \*  i = 11 \* j = 1 \* k = 9 \*  i = 11 \* j = 1 \* k = 10 \*  i = 11 \* j = 1 \* k = 11 \*  i = 11 \* j = 1 \* k = 12 \*  i = 11 \* j = 1 \* k = 13 \*  i = 11 \* j = 1 \* k = 14 \*  i = 11 \* j = 1 \* k = 15 \*  i = 11 \* j = 1 \* k = 16 \*  i = 11 \* j = 1 \* k = 17 \*  i = 11 \* j = 1 \* k = 18 \*  i = 11 \* j = 1 \* k = 19 \*  i = 11 \* j = 1 \* k = 20 \*  i = 11 \* j = 1 \* k = 21 \*  i = 11 \* j = 1 \* k = 22 \*  i = 11 \* j = 1 \* k = 23 \*  i = 11 \* j = 1 \* k = 24 \*  i = 11 \* j = 1 \* k = 25 \*  i = 11 \* j = 1 \* k = 26 \*  i = 11 \* j = 1 \* k = 27 \*  i = 11 \* j = 1 \* k = 28 \*  i = 11 \* j = 1 \* k = 29 \*  i = 11 \* j = 1 \* k = 30 \*  i = 12 \* j = 1 \* k = 1 \*  i = 12 \* j = 1 \* k = 2 \*  i = 12 \* j = 1 \* k = 3 \*  i = 12 \* j = 1 \* k = 4 \*  i = 12 \* j = 1 \* k = 5 \*  i = 12 \* j = 1 \* k = 6 \*  i = 12 \* j = 1 \* k = 7 \*  i = 12 \* j = 1 \* k = 8 \*  i = 12 \* j = 1 \* k = 9 \*  i = 12 \* j = 1 \* k = 10 \*  i = 12 \* j = 1 \* k = 11 \*  i = 12 \* j = 1 \* k = 12 \*  i = 12 \* j = 1 \* k = 13 \*  i = 12 \* j = 1 \* k = 14 \*  i = 12 \* j = 1 \* k = 15 \*  i = 12 \* j = 1 \* k 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| Bila kita memanggil prosedur tulis(30,30), berapakah jumlah ‘\*’ yang tertulis? |
| procedure tulis(n,m:integer);  var  i,j,k:integer;  begin  for i:=1 to n do  begin  for j:=1 to (n div m) do  for k:=1 to m do  writeln('\*');  for j:=1 to (n mod m) do  writeln('-');  end;  end; |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| var  x,y: integer;  procedure tulis(n,m:integer);  var  i,j,k:integer;  begin  for i:=1 to n do  begin  for j:=1 to (n div m) do  for k:=1 to m do  writeln('\*');  for j:=1 to (n mod m) do  writeln('-');  end;  end;  begin  readln(x);  readln(y);  tulis(x,y);  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| n div m = \left \lfloor \frac{n}{m} \right \rfloor  Banyak pencetakan simbol-simbol: n(\left \lfloor \frac{n}{m} \right \rfloor m + (n\;mod\;m))  Perhatikan bahwa  \left \lfloor \frac{n}{m} \right \rfloor = \frac{n - (n\;mod\;m)}{m}  Maka didapat:  n(\frac{n - (n\;mod\;m)}{m}m + n\;mod\;m))  n((n - (n\;mod\;m)) + n\;mod\;m))  n(n) |

1. No.34

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| Berapakah output dari program di atas? |
| var  T:array[1..13] of integer = (32, 6, 12, 64, 68, 100,  214, 120, 30, 80, 24, 22, 88);  function q(c,d:integer):integer;  var  e:integer;  begin  if (d=0) then q:=c else  begin  e:=c mod d;  q:=q(d,e);  end;  end;  function p(a,b:integer):integer;  var  i:integer;  begin  p:=T[a];  for i:=a to b do  begin  p:=q(p,T[i]);  end  end;  begin  writeln(p(1,13));  end. |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| uses crt;  var  T:array[1..13] of integer ;  function q(c,d:integer):integer;  var  e:integer;  begin  T[1]:=32;  T[2]:=6;  T[3]:=12;  T[4]:=64;  T[5]:=68;  T[6]:=100;  T[7]:=214;  T[8]:=120;  T[9]:=30;  T[10]:=80;  T[11]:=24;  T[12]:=22;  T[13]:=88;  if (d=0) then q:=c  else  begin  e:=c mod d;  q:=q(d,e);  end;  end;  function p(a,b:integer):integer;  var  i:integer;  begin  p:=T[a];  for i:=a to b do  begin  p:=q(p,T[i]);  end  end;  begin  writeln('hasil : ',p(1,13));  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
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1. No.35

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| Jika a[] adalah array berindex 0..9 dengan isi {1,-1,-2,-1,-1,1,-1,2,-1,3}, maka berapakah nilai tot di akhir program? |
| var  T:array[1..13] of integer = (32, 6, 12, 64, 68, 100,  214, 120, 30, 80, 24, 22, 88);  function q(c,d:integer):integer;  var  e:integer;  begin  if (d=0) then q:=c else  begin  e:=c mod d;  q:=q(d,e);  end;  end;  function p(a,b:integer):integer;  var  i:integer;  begin  p:=T[a];  for i:=a to b do  begin  p:=q(p,T[i]);  end  end;  begin  writeln(p(1,13));  end. |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| uses crt;  var  T:array[0..9] of integer ;  function q(c,d:integer):integer;  var  e:integer;  begin  T[0]:=1;  T[1]:=-1;  T[2]:=-2;  T[3]:=-1;  T[4]:=-1;  T[5]:=1;  T[6]:=-1;  T[7]:=2;  T[8]:=-1;  T[9]:=3;  if (d=0) then q:=c  else  begin  e:=c mod d;  q:=q(d,e);  end;  end;  function p(a,b:integer):integer;  var  i:integer;  begin  p:=T[a];  for i:=a to b do  begin  p:=q(p,T[i]);  end  end;  begin  writeln('hasil : ',p(1,13));  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
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1. No. 36

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| Apakah output dari pemanggilan writeln(hop(18, 3, 1993)) ? |
| function hap(x,t: integer): integer;  begin  if t = 1 then  hap := x mod 5  else  hap := 5\*x;  end;  function hip(x,y: integer): integer;  begin  if x < y then  hip := hip(y,x)  else  hip := hap(x,1) + hap(y,2);  end;  function hop(x,y,z: integer): integer;  begin  if y > z then  hop := hop(x,z,y)  else if x > y then  hop := hop(y,x,z)  else  hop := hip(x,y) + z;  end; |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| uses crt;  var  a : integer;  function hap(x,t: integer): integer;  begin  if t = 1 then  begin  hap := x mod 5;  writeln('hap(18,1):= ',x,' mod ',5,' =',hap,'');  end  else  begin  hap := 5\*x;  writeln('hap(3,2):= ',5,'\*',x,' = ',hap,'');  end;  end;  function hip(x,y: integer): integer;  begin  if x < y then  begin  hip := hip(y,x);  writeln('hip:=hip(',y,',',x,')');  end  else  begin  hip := hap(x,1) + hap(y,2);  writeln('hip:=hap(',x,',',1,') + hap(',y,',',2,')');  end;  end;    function hop(x,y,z: integer): integer;  begin  if y > z then  begin  hop := hop(x,z,y);  writeln('hop:=hop(',x,',',z,',',y,')');  end  else if x > y then  begin  hop := hop(y,x,z);  writeln('hop:=hop(',y,',',x,',',z,')');  end  else  begin  hop := hip(x,y) + z;  writeln('hop:=hip(',x,',',y,') + ',z,'');  end;  end;  begin  a:=hop(18,3,1993);  write('hasil : ',a);  readkey;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| hap(18,1):= 18 mod 5 =3  hap(3,2):= 5\*3 = 15  hip:=hap(18,1) + hap(3,2)  hip:=hip(18,3)  hop:=hip(3,18) + 1993  hop:=hop(3,18,1993)  hasil : 2011 |

1. No. 37

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| Apakah output dari pemanggilan writeln(hip(hop(201,320,12), hop(20,1120,10)) + hap(21,30)) ? |
| function hap(x,t: integer): integer;  begin  if t = 1 then  hap := x mod 5  else  hap := 5\*x;  end;  function hip(x,y: integer): integer;  begin  if x < y then  hip := hip(y,x)  else  hip := hap(x,1) + hap(y,2);  end;  function hop(x,y,z: integer): integer;  begin  if y > z then  hop := hop(x,z,y)  else if x > y then  hop := hop(y,x,z)  else  hop := hip(x,y) + z;  end; |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| function hap(x,t: integer): integer;  begin  if t = 1 then  hap := x mod 5  else  hap := 5\*x;  writeln('hap = ',hap);  writeln('Output hap = ', hap);  end;  function hip(x,y: integer): integer;  begin  if x < y then  hip := hip(y,x)  else  hip := hap(x,1) + hap(y,2);  writeln('hip = ',hip);  writeln('Output hip = ', hip);  end;  function hop(x,y,z: integer): integer;  begin  if y > z then  hop := hop(x,z,y)  else if x > y then  hop := hop(y,x,z)  else  hop := hip(x,y) + z;  writeln('hop = ',hop);  writeln('Output hop = ', hop);  end;  begin  writeln(hip(hop(201,320,12), hop(20,1120,10)) + hap(21,30));  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| hap = 0  Output hap = 0  hap = 50  Output hap = 50  hip = 50  Output hip = 50  hip = 50  Output hip = 50  hop = 1170  Output hop = 1170  hop = 1170  Output hop = 1170  hop = 1170  Output hop = 1170  hap = 1  Output hap = 1  hap = 60  Output hap = 60  hip = 61  Output hip = 61  hip = 61  Output hip = 61  hop = 381  Output hop = 381  hop = 381  Output hop = 381  hop = 381  Output hop = 381  hap = 0  Output hap = 0  hap = 1905  Output hap = 1905  hip = 1905  Output hip = 1905  hip = 1905  Output hip = 1905  hap = 105  Output hap = 105  2010 |

1. No.39

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| Apabila diberi masukan n=7, maka berapakah banyaknya ‘\*’ yang dicetak pada layar? |
| for i:=1 to n do  begin  for k:=i to n-1 do write(' ');  for j:=1 to (2\*i-1) do  if (i=n) or (i mod 2=1) then write('\*')  else if j mod 2=1 then write('\*')  else write('0');  writeln;  end;  for l:=n downto 2 do  begin  for m:=l to n do write(' ');  for o:=(2\*l-1) downto 3 do  if o mod 2=1 then write('\*')  else write('0');  writeln;  end; |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| var  i,k,j,n,m,l,o : integer;  begin  read(n);  for i:=1 to n do  begin  for k:=i to n-1 do write(' ');  for j:=1 to (2\*i-1) do  if (i=n) or (i mod 2=1) then write('\*')  else if j mod 2=1 then write('\*')  else write('0');  writeln;  end;  for l:=n downto 2 do  begin  for m:=l to n do write(' ');  for o:=(2\*l-1) downto 3 do  if o mod 2=1 then write('\*')  else write('0');  writeln;  readln;  end;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| \*  \*0\*  \*\*\*\*\*  \*0\*0\*0\*  \*\*\*\*\*\*\*\*\*  \*0\*0\*0\*0\*0\*  \*\*\*\*\*\*\*\*\*\*\*\*\*  \*0\*0\*0\*0\*0\*  \*0\*0\*0\*0\*  \*0\*0\*0\*  \*0\*0\*  \*0\*  \* |

1. No.40

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| Berapakah nilai yang dihasilkan dari pemanggilan mencari(50)? |
| function mencari(N:integer):integer;  var i,j,z:integer;  begin  mencari:=0;  for i:=1 to N do  begin  j:=1;  z:=0;  while (j <= i) do  begin  if (i mod j = 0) then inc(z);  inc(j);  end;  if (z mod 2 <> 0) then  mencari:=mencari+1;  end;  end; |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| uses crt;  function mencari(N:integer):integer;  var  i,j,z:integer;  begin  mencari:=0;  for i:=1 to N do  begin  j:=1;  z:=0;  while (j <= i) do  begin  if (i mod j = 0) then inc(z);  write(i,' mod ',j,' z = ',z);  inc(j);  writeln(' j = ',j);  end;  if (z mod 2 <> 0) then  mencari:=mencari+1;  writeln('hasil mencari = ',mencari);  end;  end;  var  x : integer;  begin  readln(x);  writeln(mencari(x));  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| masukan nilai : 50  1 mod 1 = 0 hasil z : 1 j :2  hasil mencari :1  2 mod 1 = 0 hasil z : 1 j :2  2 mod 2 = 0 hasil z : 2 j :3  3 mod 1 = 0 hasil z : 1 j :2  3 mod 2 = 0 hasil z : 1 j :3  3 mod 3 = 0 hasil z : 2 j :4  4 mod 1 = 0 hasil z : 1 j :2  4 mod 2 = 0 hasil z : 2 j :3  4 mod 3 = 0 hasil z : 2 j :4  4 mod 4 = 0 hasil z : 3 j :5  hasil mencari :2  5 mod 1 = 0 hasil z : 1 j :2  5 mod 2 = 0 hasil z : 1 j :3  5 mod 3 = 0 hasil z : 1 j :4  5 mod 4 = 0 hasil z : 1 j :5  5 mod 5 = 0 hasil z : 2 j :6  6 mod 1 = 0 hasil z : 1 j :2  6 mod 2 = 0 hasil z : 2 j :3  6 mod 3 = 0 hasil z : 3 j :4  6 mod 4 = 0 hasil z : 3 j :5  6 mod 5 = 0 hasil z : 3 j :6  6 mod 6 = 0 hasil z : 4 j :7  7 mod 1 = 0 hasil z : 1 j :2  7 mod 2 = 0 hasil z : 1 j :3  7 mod 3 = 0 hasil z : 1 j :4  7 mod 4 = 0 hasil z : 1 j :5  7 mod 5 = 0 hasil z : 1 j :6  7 mod 6 = 0 hasil z : 1 j :7  7 mod 7 = 0 hasil z : 2 j :8  8 mod 1 = 0 hasil z : 1 j :2  8 mod 2 = 0 hasil z : 2 j :3  8 mod 3 = 0 hasil z : 2 j :4  8 mod 4 = 0 hasil z : 3 j :5  8 mod 5 = 0 hasil z : 3 j :6  8 mod 6 = 0 hasil z : 3 j :7  8 mod 7 = 0 hasil z : 3 j :8  8 mod 8 = 0 hasil z : 4 j :9  9 mod 1 = 0 hasil z : 1 j :2  9 mod 2 = 0 hasil z : 1 j :3  9 mod 3 = 0 hasil z : 2 j :4  9 mod 4 = 0 hasil z : 2 j :5  9 mod 5 = 0 hasil z : 2 j :6  9 mod 6 = 0 hasil z : 2 j :7  9 mod 7 = 0 hasil z : 2 j :8  9 mod 8 = 0 hasil z : 2 j :9  9 mod 9 = 0 hasil z : 3 j :10  hasil mencari :3  10 mod 1 = 0 hasil z : 1 j :2  10 mod 2 = 0 hasil z : 2 j :3  10 mod 3 = 0 hasil z : 2 j :4  10 mod 4 = 0 hasil z : 2 j :5  10 mod 5 = 0 hasil z : 3 j :6  10 mod 6 = 0 hasil z : 3 j :7  10 mod 7 = 0 hasil z : 3 j :8  10 mod 8 = 0 hasil z : 3 j :9  10 mod 9 = 0 hasil z : 3 j :10  10 mod 10 = 0 hasil z : 4 j :11  11 mod 1 = 0 hasil z : 1 j :2  11 mod 2 = 0 hasil z : 1 j :3  11 mod 3 = 0 hasil z : 1 j :4  11 mod 4 = 0 hasil z : 1 j :5  11 mod 5 = 0 hasil z : 1 j :6  11 mod 6 = 0 hasil z : 1 j :7  11 mod 7 = 0 hasil z : 1 j :8  11 mod 8 = 0 hasil z : 1 j :9  11 mod 9 = 0 hasil z : 1 j :10  11 mod 10 = 0 hasil z : 1 j :11  11 mod 11 = 0 hasil z : 2 j :12  12 mod 1 = 0 hasil z : 1 j :2  12 mod 2 = 0 hasil z : 2 j :3  12 mod 3 = 0 hasil z : 3 j :4  12 mod 4 = 0 hasil z : 4 j :5  12 mod 5 = 0 hasil z : 4 j :6  12 mod 6 = 0 hasil z : 5 j :7  12 mod 7 = 0 hasil z : 5 j :8  12 mod 8 = 0 hasil z : 5 j :9  12 mod 9 = 0 hasil z : 5 j :10  12 mod 10 = 0 hasil z : 5 j :11  12 mod 11 = 0 hasil z : 5 j :12  12 mod 12 = 0 hasil z : 6 j :13  13 mod 1 = 0 hasil z : 1 j :2  13 mod 2 = 0 hasil z : 1 j :3  13 mod 3 = 0 hasil z : 1 j :4  13 mod 4 = 0 hasil z : 1 j :5  13 mod 5 = 0 hasil z : 1 j :6  13 mod 6 = 0 hasil z : 1 j :7  13 mod 7 = 0 hasil z : 1 j :8  13 mod 8 = 0 hasil z : 1 j :9  13 mod 9 = 0 hasil z : 1 j :10  13 mod 10 = 0 hasil z : 1 j :11  13 mod 11 = 0 hasil z : 1 j :12  13 mod 12 = 0 hasil z : 1 j :13  13 mod 13 = 0 hasil z : 2 j :14  14 mod 1 = 0 hasil z : 1 j :2  14 mod 2 = 0 hasil z : 2 j :3  14 mod 3 = 0 hasil z : 2 j :4  14 mod 4 = 0 hasil z : 2 j :5  14 mod 5 = 0 hasil z : 2 j :6  14 mod 6 = 0 hasil z : 2 j :7  14 mod 7 = 0 hasil z : 3 j :8  14 mod 8 = 0 hasil z : 3 j :9  14 mod 9 = 0 hasil z : 3 j :10  14 mod 10 = 0 hasil z : 3 j :11  14 mod 11 = 0 hasil z : 3 j :12  14 mod 12 = 0 hasil z : 3 j :13  14 mod 13 = 0 hasil z : 3 j :14  14 mod 14 = 0 hasil z : 4 j :15  15 mod 1 = 0 hasil z : 1 j :2  15 mod 2 = 0 hasil z : 1 j :3  15 mod 3 = 0 hasil z : 2 j :4  15 mod 4 = 0 hasil z : 2 j :5  15 mod 5 = 0 hasil z : 3 j :6  15 mod 6 = 0 hasil z : 3 j :7  15 mod 7 = 0 hasil z : 3 j :8  15 mod 8 = 0 hasil z : 3 j :9  15 mod 9 = 0 hasil z : 3 j :10  15 mod 10 = 0 hasil z : 3 j :11  15 mod 11 = 0 hasil z : 3 j :12  15 mod 12 = 0 hasil z : 3 j :13  15 mod 13 = 0 hasil z : 3 j :14  15 mod 14 = 0 hasil z : 3 j :15  15 mod 15 = 0 hasil z : 4 j :16  16 mod 1 = 0 hasil z : 1 j :2  16 mod 2 = 0 hasil z : 2 j :3  16 mod 3 = 0 hasil z : 2 j :4  16 mod 4 = 0 hasil z : 3 j :5  16 mod 5 = 0 hasil z : 3 j :6  16 mod 6 = 0 hasil z : 3 j :7  16 mod 7 = 0 hasil z : 3 j :8  16 mod 8 = 0 hasil z : 4 j :9  16 mod 9 = 0 hasil z : 4 j :10  16 mod 10 = 0 hasil z : 4 j :11  16 mod 11 = 0 hasil z : 4 j :12  16 mod 12 = 0 hasil z : 4 j :13  16 mod 13 = 0 hasil z : 4 j :14  16 mod 14 = 0 hasil z : 4 j :15  16 mod 15 = 0 hasil z : 4 j :16  16 mod 16 = 0 hasil z : 5 j :17  hasil mencari :4  17 mod 1 = 0 hasil z : 1 j :2  17 mod 2 = 0 hasil z : 1 j :3  17 mod 3 = 0 hasil z : 1 j :4  17 mod 4 = 0 hasil z : 1 j :5  17 mod 5 = 0 hasil z : 1 j :6  17 mod 6 = 0 hasil z : 1 j :7  17 mod 7 = 0 hasil z : 1 j :8  17 mod 8 = 0 hasil z : 1 j :9  17 mod 9 = 0 hasil z : 1 j :10  17 mod 10 = 0 hasil z : 1 j :11  17 mod 11 = 0 hasil z : 1 j :12  17 mod 12 = 0 hasil z : 1 j :13  17 mod 13 = 0 hasil z : 1 j :14  17 mod 14 = 0 hasil z : 1 j :15  17 mod 15 = 0 hasil z : 1 j :16  17 mod 16 = 0 hasil z : 1 j :17  17 mod 17 = 0 hasil z : 2 j :18  18 mod 1 = 0 hasil z : 1 j :2  18 mod 2 = 0 hasil z : 2 j :3  18 mod 3 = 0 hasil z : 3 j :4  18 mod 4 = 0 hasil z : 3 j :5  18 mod 5 = 0 hasil z : 3 j :6  18 mod 6 = 0 hasil z : 4 j :7  18 mod 7 = 0 hasil z : 4 j :8  18 mod 8 = 0 hasil z : 4 j :9  18 mod 9 = 0 hasil z : 5 j :10  18 mod 10 = 0 hasil z : 5 j :11  18 mod 11 = 0 hasil z : 5 j :12  18 mod 12 = 0 hasil z : 5 j :13  18 mod 13 = 0 hasil z : 5 j :14  18 mod 14 = 0 hasil z : 5 j :15  18 mod 15 = 0 hasil z : 5 j :16  18 mod 16 = 0 hasil z : 5 j :17  18 mod 17 = 0 hasil z : 5 j :18  18 mod 18 = 0 hasil z : 6 j :19  19 mod 1 = 0 hasil z : 1 j :2  19 mod 2 = 0 hasil z : 1 j :3  19 mod 3 = 0 hasil z : 1 j :4  19 mod 4 = 0 hasil z : 1 j :5  19 mod 5 = 0 hasil z : 1 j :6  19 mod 6 = 0 hasil z : 1 j :7  19 mod 7 = 0 hasil z : 1 j :8  19 mod 8 = 0 hasil z : 1 j :9  19 mod 9 = 0 hasil z : 1 j :10  19 mod 10 = 0 hasil z : 1 j :11  19 mod 11 = 0 hasil z : 1 j :12  19 mod 12 = 0 hasil z : 1 j :13  19 mod 13 = 0 hasil z : 1 j :14  19 mod 14 = 0 hasil z : 1 j :15  19 mod 15 = 0 hasil z : 1 j :16  19 mod 16 = 0 hasil z : 1 j :17  19 mod 17 = 0 hasil z : 1 j :18  19 mod 18 = 0 hasil z : 1 j :19  19 mod 19 = 0 hasil z : 2 j :20  20 mod 1 = 0 hasil z : 1 j :2  20 mod 2 = 0 hasil z : 2 j :3  20 mod 3 = 0 hasil z : 2 j :4  20 mod 4 = 0 hasil z : 3 j :5  20 mod 5 = 0 hasil z : 4 j :6  20 mod 6 = 0 hasil z : 4 j :7  20 mod 7 = 0 hasil z : 4 j :8  20 mod 8 = 0 hasil z : 4 j :9  20 mod 9 = 0 hasil z : 4 j :10  20 mod 10 = 0 hasil z : 5 j :11  20 mod 11 = 0 hasil z : 5 j :12  20 mod 12 = 0 hasil z : 5 j :13  20 mod 13 = 0 hasil z : 5 j :14  20 mod 14 = 0 hasil z : 5 j :15  20 mod 15 = 0 hasil z : 5 j :16  20 mod 16 = 0 hasil z : 5 j :17  20 mod 17 = 0 hasil z : 5 j :18  20 mod 18 = 0 hasil z : 5 j :19  20 mod 19 = 0 hasil z : 5 j :20  20 mod 20 = 0 hasil z : 6 j :21  21 mod 1 = 0 hasil z : 1 j :2  21 mod 2 = 0 hasil z : 1 j :3  21 mod 3 = 0 hasil z : 2 j :4  21 mod 4 = 0 hasil z : 2 j :5  21 mod 5 = 0 hasil z : 2 j :6  21 mod 6 = 0 hasil z : 2 j :7  21 mod 7 = 0 hasil z : 3 j :8  21 mod 8 = 0 hasil z : 3 j :9  21 mod 9 = 0 hasil z : 3 j :10  21 mod 10 = 0 hasil z : 3 j :11  21 mod 11 = 0 hasil z : 3 j :12  21 mod 12 = 0 hasil z : 3 j :13  21 mod 13 = 0 hasil z : 3 j :14  21 mod 14 = 0 hasil z : 3 j :15  21 mod 15 = 0 hasil z : 3 j :16  21 mod 16 = 0 hasil z : 3 j :17  21 mod 17 = 0 hasil z : 3 j :18  21 mod 18 = 0 hasil z : 3 j :19  21 mod 19 = 0 hasil z : 3 j :20  21 mod 20 = 0 hasil z : 3 j :21  21 mod 21 = 0 hasil z : 4 j :22  22 mod 1 = 0 hasil z : 1 j :2  22 mod 2 = 0 hasil z : 2 j :3  22 mod 3 = 0 hasil z : 2 j :4  22 mod 4 = 0 hasil z : 2 j :5  22 mod 5 = 0 hasil z : 2 j :6  22 mod 6 = 0 hasil z : 2 j :7  22 mod 7 = 0 hasil z : 2 j :8  22 mod 8 = 0 hasil z : 2 j :9  22 mod 9 = 0 hasil z : 2 j :10  22 mod 10 = 0 hasil z : 2 j :11  22 mod 11 = 0 hasil z : 3 j :12  22 mod 12 = 0 hasil z : 3 j :13  22 mod 13 = 0 hasil z : 3 j :14  22 mod 14 = 0 hasil z : 3 j :15  22 mod 15 = 0 hasil z : 3 j :16  22 mod 16 = 0 hasil z : 3 j :17  22 mod 17 = 0 hasil z : 3 j :18  22 mod 18 = 0 hasil z : 3 j :19  22 mod 19 = 0 hasil z : 3 j :20  22 mod 20 = 0 hasil z : 3 j :21  22 mod 21 = 0 hasil z : 3 j :22  22 mod 22 = 0 hasil z : 4 j :23  23 mod 1 = 0 hasil z : 1 j :2  23 mod 2 = 0 hasil z : 1 j :3  23 mod 3 = 0 hasil z : 1 j :4  23 mod 4 = 0 hasil z : 1 j :5  23 mod 5 = 0 hasil z : 1 j :6  23 mod 6 = 0 hasil z : 1 j :7  23 mod 7 = 0 hasil z : 1 j :8  23 mod 8 = 0 hasil z : 1 j :9  23 mod 9 = 0 hasil z : 1 j :10  23 mod 10 = 0 hasil z : 1 j :11  23 mod 11 = 0 hasil z : 1 j :12  23 mod 12 = 0 hasil z : 1 j :13  23 mod 13 = 0 hasil z : 1 j :14  23 mod 14 = 0 hasil z : 1 j :15  23 mod 15 = 0 hasil z : 1 j :16  23 mod 16 = 0 hasil z : 1 j :17  23 mod 17 = 0 hasil z : 1 j :18  23 mod 18 = 0 hasil z : 1 j :19  23 mod 19 = 0 hasil z : 1 j :20  23 mod 20 = 0 hasil z : 1 j :21  23 mod 21 = 0 hasil z : 1 j :22  23 mod 22 = 0 hasil z : 1 j :23  23 mod 23 = 0 hasil z : 2 j :24  24 mod 1 = 0 hasil z : 1 j :2  24 mod 2 = 0 hasil z : 2 j :3  24 mod 3 = 0 hasil z : 3 j :4  24 mod 4 = 0 hasil z : 4 j :5  24 mod 5 = 0 hasil z : 4 j :6  24 mod 6 = 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1. No.41

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| --- |
| Berapakah nilai yang dihasilkan dari pemanggilan mencari(9000)? |
| function mencari(N:integer):integer;  var i,j,z:integer;  begin  mencari:=0;  for i:=1 to N do  begin  j:=1;  z:=0;  while (j <= i) do  begin  if (i mod j = 0) then inc(z);  inc(j);  end;  if (z mod 2 <> 0) then  mencari:=mencari+1;  end;  end; |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| uses crt;  function mencari(N:integer):integer;  var i,j,z:integer;  begin  mencari:=0;  for i:=1 to N do  begin  j:=1;  z:=0;  while (j <= i) do  begin  if (i mod j = 0) then inc(z);  inc(j);  end;  if (z mod 2 <> 0) then  mencari:=mencari+1;  end;  end;  var  x : integer;  begin  readln(x);  writeln(mencari(x));  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| Outputnya terlalu panjang ,  Hasil = 94 |

1. No.42

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| Keluaran dari program di atas adalah .... |
| var  data1 : array[1..10] of integer =  (3,9,2,2,1,5,7,5,5,8);  data2,data3 : array[1..10] of integer;  i : integer;  begin  for i:= 1 to 10 do  data2[i] := 0;  for i:= 1 to 10 do  inc(data2[data1[i]]);  for i:= 2 to 10 do  data2[i] := data2[i] + data2[i-1];  for i:= 10 downto 1 do  begin  data3[data2[data1[i]]] := data1[i];  dec(data2[data1[i]]);  end;  for i:= 1 to 10 do  write(data3[i]);  end |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| uses crt;  var  data1 : array[1..10] of integer ;  data2,data3 : array[1..10] of integer;  i : integer;  begin  data1[1]:=3;  data1[2]:=9;  data1[3]:=2;  data1[4]:=2;  data1[5]:=1;  data1[6]:=5;  data1[7]:=7;  data1[8]:=5;  data1[9]:=5;  data1[10]:=8;  for i:= 1 to 10 do  begin  data2[i] := 0;  writeln('data2[',i,'] : ',data2[i]);  end;  writeln;  for i:= 1 to 10 do  begin  inc(data2[data1[i]]);  writeln('inc(data2[data1[',i,']] : ',data2[data2[data1[i]]]);  end;  writeln;  for i:= 2 to 10 do  begin  data2[i] := data2[i] + data2[i-1];  writeln('data2[',i,'] := data2[',i,'] + data2[',i-1,'] = ',data2[i],'');  end;  writeln;  for i:= 10 downto 1 do  begin  data3[data2[data1[i]]] := data1[i];  begin  writeln('data3[',data2[data1[i]],'] = ',data3[data2[data1[i]]],'');  end;  dec(data2[data1[i]]);  end;  writeln;  for i:= 1 to 10 do  writeln('data3[',i,'] :',data3[i]);  readkey;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| data2[1] : 0  data2[2] : 0  data2[3] : 0  data2[4] : 0  data2[5] : 0  data2[6] : 0  data2[7] : 0  data2[8] : 0  data2[9] : 0  data2[10] : 0  inc(data2[data1[1]] : 0  inc(data2[data1[2]] : 0  inc(data2[data1[3]] : 0  inc(data2[data1[4]] : 2  inc(data2[data1[5]] : 1  inc(data2[data1[6]] : 1  inc(data2[data1[7]] : 1  inc(data2[data1[8]] : 2  inc(data2[data1[9]] : 1  inc(data2[data1[10]] : 1  data2[2] := data2[2] + data2[1] = 3  data2[3] := data2[3] + data2[2] = 4  data2[4] := data2[4] + data2[3] = 4  data2[5] := data2[5] + data2[4] = 7  data2[6] := data2[6] + data2[5] = 7  data2[7] := data2[7] + data2[6] = 8  data2[8] := data2[8] + data2[7] = 9  data2[9] := data2[9] + data2[8] = 10  data2[10] := data2[10] + data2[9] = 10  data3[9] = 8  data3[7] = 5  data3[6] = 5  data3[8] = 7  data3[5] = 5  data3[1] = 1  data3[3] = 2  data3[2] = 2  data3[10] = 9  data3[4] = 3  data3[1] :1  data3[2] :2  data3[3] :2  data3[4] :3  data3[5] :5  data3[6] :5  data3[7] :5  data3[8] :7  data3[9] :8  data3[10] :9 |

1. No.43

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| --- |
| Apakah keluaran dari program di atas? |
| var i,j,x: integer;  begin  x := 0;  for i:=1 to 5 do begin  for j:= 5 downto 1 do begin  x := x + i + j;  end;  end;  writeln(x); end. |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| var i,j,x: integer;  begin  x := 0;  for i:=1 to 5 do begin  for j:= 5 downto 1 do begin  x := x + i + j;  writeln(i,' ',j,' ',x);  end;  end;  writeln(x);  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| x:=x+i+j;  x:=x+1+5;  6:=6+1+4;  11:=11+1+3;  15=15+1+2;  18:=18+1+1;  20:=20+2+5;  27:=27+2+4;  33:=33+2+3;  38:=38+2+2;  42:=42+2+1;  45:=45+3+5;  53:=53+3+4;  60:=60+3+3;  66:=66+3+2;  71:=71+3+1;  75:=75+4+5;  84:=84+4+4;  92:=92+4+3;  99:=99+4+2;  105:=105+4+1;  110:=110+5+5;  120:=120+5+4;  129:=129+5+3;  137:=137+5+2;  144:=144+5+1;  x:=150; |

1. No.44

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| Apa keluaran yang dihasilkan dari program tersebut? |
| var x,y:integer;  procedure abc(a:integer;var b:integer);  var c:integer;  begin  if not((a=0)or(b=0)) then  if (a>b) then  begin  a:=a mod b;  abc(b,a);  end  else  begin  b:=b mod a;  abc(a,b);  end;  write(a,' ');  end;  begin  x:=219; y:=168;  abc (x,y);  end. |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| var x,y:integer;  procedure abc(a:integer;var b:integer);  var c:integer;  begin  if not((a=0)or(b=0)) then  if (a>b) then  begin  a:=a mod b;  writeln('a = ',a,' b = ',b);  abc(b,a);  end  else  begin  b:=b mod a;  abc(a,b);  end;  end;  begin  x:=219; y:=168;  abc(x,y);  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| a = 51 b = 168  a = 15 b = 51  a = 6 b = 15  a = 3 b = 6  a = 0 b = 3 |

1. No.45

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| Apa keluaran yang dihasilkan dari program tersebut? |
| var x,y:integer;  procedure abc(a:integer;var b:integer);  var c:integer;  begin  if not((a=0)or(b=0)) then  if (a>b) then  begin  a:=a mod b;  abc(b,a);  end  else  begin  b:=b mod a;  abc(a,b);  end;  write(a,' ');  end;  begin  x:=219; y:=168;  abc (x,y);  end. |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| var x,y:integer;  procedure abc(a:integer;var b:integer);  var c:integer;  begin  if not((a=0)or(b=0)) then  if (a>b) then  begin  a:=a mod b;  writeln('a = ',a,' b = ',b);  abc(b,a);  end  else  begin  b:=b mod a;  abc(a,b);  end;  end;  begin  x:=219; y:=168;  abc(x,y);  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| a = 51 b = 168  a = 15 b = 51  a = 6 b = 15  a = 3 b = 6  a = 0 b = 3 |

1. No.46

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| Jika potongan program dijalankan dengan masukan n = 2013, maka program akan menuliskan keluaran … |
| var sum, i, j, n, c : integer;  begin  readln(n);  sum := 0;  for i := 2 to n do  begin  c := 0;  j := i;  while (j > 0) do  begin  if (j mod 2 = 1) then c := c + 1;  j := j div 2;  end;  if (c = 1) then sum := sum + 1;  end;  writeln(sum);  end. |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| var sum, i, j, n, c : integer;  begin  readln(n);  sum := 0;  for i := 2 to n do  begin  c := 0;  j := i;  while (j > 0) do  begin  if (j mod 2 = 1) then  c := c + 1;  j := j div 2;  end;  if (c = 1) then  sum := sum + 1;  end;  write(sum);  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| 10 |

1. No.47

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| Berapakah bilangan yang tercetak dilayar jika dilakukan pemanggilan f(15,97,0)? |
| procedure f(x: longint; y: longint; z: longint);  begin  if (y = 0) then  writeln(z)  else  begin  if (y mod 2 = 1) then  z := z + x;  f(2\*x, y div 2, z)  end;  end; |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| Var  y,z,x : integer;  procedure f(x: longint; y: longint; z: longint);  begin  writeln('x y div 2 z');  writeln(x,' ',y,' ',z);  writeln();  if (y = 0) then  writeln(‘hasil z = ‘,z)  else  begin  if (y mod 2 = 1) then  z := z + x;  f(2\*x, y div 2, z)  end;  end;  begin  x:=15; y:=97; z:=0;  f(x,y,z);  readln;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| x y div 2 z  15 97 0  x y div 2 z  30 48 15  x y div 2 z  60 24 15  x y div 2 z  120 12 15  x y div 2 z  240 6 15  x y div 2 z  480 3 15  x y div 2 z  960 1 495  x y div 2 z  1920 0 1455  Hasil z = 1455 |

1. No.48

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| Berapakah nilai yang dihasilkan dari pemanggilan fungsi flip(4,7)? |
| function flop(a,b:longint):longint;  forward;  function flip(a,b:longint):longint;  begin  if (a = 0) then  flip:=0  else  flip:=a+flop(a-1,b);  end;  function flop(a,b:longint):longint;  begin  if (b = 0) then  flop:=0  else  flop:=b+flip(a,b-1);  end; |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| uses wincrt;  function flop(a,b:longint):longint;  forward;  function flip(a,b:longint):longint;  begin  if (a = 0) then  flip:=0  else  flip:=a+flop(a-1,b);  writeln(a,' \* ',b,' + ',a);  end;  function flop(a,b:longint):longint;  begin  if (b = 0) then  flop:=0  else  flop:=b+flip(a,b-1);  end;  var  c,d : longint;  begin  c:=4;  d:=7;  writeln(flip(c,d));  readkey;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| 0 \* 3 + 0  1 \* 4 + 1  2 \* 5 + 2  3 \* 6 + 3  4 \* 7 + 4  32 |

1. No.49

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| Berapakah nilai yang dihasilkan dari pemanggilan fungsi flop(100,200)? |
| function flop(a,b:longint):longint;  forward;  function flip(a,b:longint):longint;  begin  if (a = 0) then  flip:=0  else  flip:=a+flop(a-1,b);  end;  function flop(a,b:longint):longint;  begin  if (b = 0) then  flop:=0  else  flop:=b+flip(a,b-1);  end; |
| Kode Program Dimodifikasi : *(Hasil Modifikasi Diwarnai)* |
| uses wincrt;  function flop(a,b:longint):longint;  forward;  function flip(a,b:longint):longint;  begin  if (a = 0) then  flip:=0  else  flip:=a+flop(a-1,b);  end;  function flop(a,b:longint):longint;  begin  if (b = 0) then  flop:=0  else  flop:=b+flip(a,b-1);  writeln(a,' \* ',b,' + ',a);  end;  var  c,d : longint;  begin  c:=100;  d:=200;  writeln(flop(c,d));  readkey;  end. |
| Output Dari Kode Program Yang Dimodifikasi : |
| 0 \* 100 + 0  1 \* 101 + 1  2 \* 102 + 2  3 \* 103 + 3  4 \* 104 + 4  5 \* 105 + 5  6 \* 106 + 6  7 \* 107 + 7  8 \* 108 + 8  9 \* 109 + 9  10 \* 110 + 10  11 \* 111 + 11  12 \* 112 + 12  13 \* 113 + 13  14 \* 114 + 14  15 \* 115 + 15  16 \* 116 + 16  17 \* 117 + 17  18 \* 118 + 18  19 \* 119 + 19  20 \* 120 + 20  21 \* 121 + 21  22 \* 122 + 22  23 \* 123 + 23  24 \* 124 + 24  25 \* 125 + 25  26 \* 126 + 26  27 \* 127 + 27  28 \* 128 + 28  29 \* 129 + 29  30 \* 130 + 30  31 \* 131 + 31  32 \* 132 + 32  33 \* 133 + 33  34 \* 134 + 34  35 \* 135 + 35  36 \* 136 + 36  37 \* 137 + 37  38 \* 138 + 38  39 \* 139 + 39  40 \* 140 + 40  41 \* 141 + 41  42 \* 142 + 42  43 \* 143 + 43  44 \* 144 + 44  45 \* 145 + 45  46 \* 146 + 46  47 \* 147 + 47  48 \* 148 + 48  49 \* 149 + 49  50 \* 150 + 50  51 \* 151 + 51  52 \* 152 + 52  53 \* 153 + 53  54 \* 154 + 54  55 \* 155 + 55  56 \* 156 + 56  57 \* 157 + 57  58 \* 158 + 58  59 \* 159 + 59  60 \* 160 + 60  61 \* 161 + 61  62 \* 162 + 62  63 \* 163 + 63  64 \* 164 + 64  65 \* 165 + 65  66 \* 166 + 66  67 \* 167 + 67  68 \* 168 + 68  69 \* 169 + 69  70 \* 170 + 70  71 \* 171 + 71  72 \* 172 + 72  73 \* 173 + 73  74 \* 174 + 74  75 \* 175 + 75  76 \* 176 + 76  77 \* 177 + 77  78 \* 178 + 78  79 \* 179 + 79  80 \* 180 + 80  81 \* 181 + 81  82 \* 182 + 82  83 \* 183 + 83  84 \* 184 + 84  85 \* 185 + 85  86 \* 186 + 86  87 \* 187 + 87  88 \* 188 + 88  89 \* 189 + 89  90 \* 190 + 90  91 \* 191 + 91  92 \* 192 + 92  93 \* 193 + 93  94 \* 194 + 94  95 \* 195 + 95  96 \* 196 + 96  97 \* 197 + 97  98 \* 198 + 98  99 \* 199 + 99  100 \* 200 + 100  20200 |