

```

0 program Exercício1;
1 var N:array [1..20] of integer;
2 var i, j, p, a: integer;
3 begin
4 WriteLn('digite o vetor: ');
5 for i:=1 to 20 do
6 ReadLn(N[i]);
7 begin
8 for j:=i+1 to 20 do
9 begin
10 if N[i]> N[j] then
11 begin
12 a:=N[j];
13 N[j]:= N[i];
14 N[i]:= a;
15 end
16 end
17 end;
18 WriteLn('o menor valor: ');
19 for i:= 1 to 1 do
20 p:=i;
21 WriteLn(' | ', N[i], ' | ', p);
22 end.

```

```

program questao2;
var
    K: array[1..30] of integer;
    i, posteriores, anterior : integer;
begin
    for i := 1 to 30 do
    begin
        Writeln ('Digite o número ', i, ':');
        ReadLn (K[i]);
    end;
    for i := 1 to 30 do
    begin
        Writeln (K[i]);
    end;
    for i := 1 to 30 do
    begin
        if (i mod 2) > 0 then
        begin
            anterior := K[i];
            posteriores := K[i+1];
            K[i] := posteriores;
            K[i+1] := anterior;
        end;
    end;
    Writeln('////////////////////////');
    for i := 1 to 30 do
    begin
        Writeln (K[i]);
    end;
end.

```

calc.pas X

```
0 program questao3;
1 var
2     S: array[1..20] of integer;
3     i,A,SOMA : integer;
4 begin
5     Writeln ('Digite o número de A: ');
6     ReadLn (A);
7     for i := 1 to 20 do
8     begin
9         Writeln ('Digite o número do vetor ',i,
10             ReadLn (S[i]));
11     end;
12     for i := 1 to 20 do
13     begin
14         SOMA := SOMA + S[i];
15     end;
16     A:= A * SOMA;
17     Writeln;
18     Writeln (A);
19 end.
```

calc.pas X

```
0 program questao4;
1 var
2     V: array[1..20] of integer;
3     i, cont : integer;
4 begin
5     cont:=0;
6     for i := 1 to 20 do
7     begin
8         WriteLn ('Digite o número do vetor ', i,
9             ReadLn (V[i]));
10     end;
11     WriteLn;
12     for i := 1 to 20 do
13     begin
14         WriteLn(V[i]);
15     end;
16     WriteLn;
17     for i:=1 to 20 do
18     begin
19         if (V[i] mod 2) =0 then
20             cont:=cont + 1;
21         end;
22     WriteLn('existem: ', cont, ' par(es) neste ve
23 end.
24
```





calc.pas X

```

Program exercicio5;
Var num:array[1..100] of integer;
x,y,imenor,troca:integer;
Begin
  for x:=1 to 100 do
  Begin
    writeln('Número ',x);
    readln(num[x]);
  End;
  for x:=1 to 100 do
  Begin
    imenor:=x;
    for y:=x+1 to 100 do
    Begin
      if num[y]>num[imenor] then imenor:=y;
    End;
    if num[x]<>num[imenor] then
    Begin
      troca:=num[x];
      num[x]:=num[imenor];
      num[imenor]:=troca;
    End;
  End;
End;
writeln('Valores Ordenados');
for x:=1 to 100 do
Begin
  writeln(num[x]);
End;
End.

```

calc.pas X

```
0 Program exercicio7;
1 Var i,j,k, N: integer;
2 var X, Y:array[1..15] of integer;
3 begin
4 k:=0;
5 WriteLn('digite o vetor: ');
6 for i:= 1 to 15 do
7 begin
8 read(X[i]);
9 if (X[i] = 2) or (A[i] = 3) then
10 begin
11 Y[k]:= X[i];
12 k:= k+1;
13 end;
14 N:= trunc(sqrt(X[i]));
15 for j:= 2 to N do
16 begin
17 if X[i] mod j = 0 then break;
18 if(j=N) then
19 begin
20 Y[k]:=X[i];
21 k:=k+1;
22 end
23 end;
24 end;
25 for i:= 0 to k-1 do
26 WriteLn(' | ', Y[i]);
27 end.
28
29
```

```

Program exercicio8;
const TAM = 8;
Var N,i, j, c: integer;
var A:array[1..TAM] of integer;
D:boolean;
begin
for i:=1 to TAM DO
ReadLn(A[i]);
for i:=1 to TAM do
begin
c:= 0;
D:= true;
for j:=1 to TAM do
if A[i] = A[j] then
c:=c+1;
if (c > 1) then
writeln('o numero ', A[i], ' nao é distinto (ele
else
WriteLn('foi achado um distinto: ',A[i], ' (ele s
end;
end.

```



calc.pas X

```
0 Program exercicio9;
1 Var N,i, j, c: integer;
2 var A:array[1..50] of integer;
3 begin
4   c:=-1;
5   for i:=1 to 50 do
6   begin
7     write('digite o componente',i,'do vetor A:');
8     ReadLn(A[i]);
9   end;
10  while (c<0) or (c>2) do
11  begin
12    WriteLn('digite 0 para finalizar o programa, 1 p
13    ReadLn(c);
14  end;
15  if (c=0) then
16  begin
17    WriteLn('fim do programa.');
```



```
1 begin
2 WriteLn('digite 0 para finalizar o programa, 1 p
3 ReadLn(c);
4 end;
5 if (c=0) then
6 begin
7 WriteLn('fim do programa. ');
8 end;
9 if (c=1) then
10 begin
11 WriteLn('o vetor e: ');
12 for i:=1 to 50 do
13 begin
14 WriteLn(A[i]), ' ');
15 end;
16 WriteLn(']');
17 end;
18 if (c=2) then
19 begin
20 for i:=1 to 49 do
21 for j:=i+1 to 50 do
22 if (if<j) then
23 begin
24 N:= A[j];
25 A[j]:=A[i];
26 A[i]:=N;
27 end;
28 write('seu vetor com os elementos invertidos fic
29 for i:=1 to 50 do
30 begin
31 WriteLn(A[i], ' ');
32 end;
33 WriteLn([']']);
34 end;
35 end.
```

```
0 Program exercicio10;
1 Var i,j, a: integer;
2 var L:array[1..9] of integer;
3 begin
4 write('digite o vetor: ');
5 for i:= 0 to 9 do
6 ReadLn(L[i]);
7 for i:= 0 to 9 do
8 begin
9 for j:= i+1 to 9 do
10 begin
11 if L[i] > L[j] then
12 begin
13 a:= L[j];
14 L[j]:= L[i];
15 L[i]:= a;
16 end;
17 end
18 end;
19 WriteLn('os tres menores elementos sao: ');
20 for i:= 0 to 2 do
21 writeln(' | ', L[i]);
22 end.
```

calc.pas X

```
0 Program exercicio11;  
1 Var  
2 A:array[1..10] of integer;  
3 B:array[1..10] of integer;  
4 i,e,fat,troca :integer;  
5 Begin  
6     for i:=1 to 10 do  
7         Begin  
8             Writeln ('Digite o valor ',i,' do vetor  
9                 Readln (A[i]);  
10        End;  
11        for i:=1 to 10 do  
12            Begin  
13                fat := 1;  
14                for e:=1 to A[i] do  
15                    Begin  
16                        fat := fat*e;  
17                    end;  
18                B[i] := fat;  
19            end;  
20            Writeln;  
21            for i:=1 to 10 do  
22                Begin  
23                    Writeln (B[i]);  
24                End;  
25    end.
```



calc.pas X

```
1 Program exercicio12;
2 const TAM = 9;
3 Var L:array[1..TAM] of integer;
4 i,a:integer;
5 Begin
6     Writeln ('Digite o vetor: ');
7     for i:= 0 to 9 do
8         Readln (L[i]);
9     for i:=0 to (TAM div 2) do
10         begin
11             a:=L[i];
12             L[i]:=L[TAM-i];
13             L[TAM-i]:= a;
14         End;
15     Writeln('vetor invertido:  | ');
16     for i:=0 to TAM do
17         write(L[i], ' | ');
18     writeln;
19 end.
```