• (A trick question) Rewrite the following to remove the “JMP EndIf” instruction and the True label.

```assembly
If(X > op1) or (Y <= op2)
Then
  <...
End If
```

```assembly
CMP X, op1
JG True
CMP Y, op2
JLE True
JMP EndIf
True:
  <...
EndIf:
```

```assembly
CMP X, op1
________
CMP Y, op2
________
JMP EndIf
True:
  <...
EndIf:
```

• The following is the assembly code for a PASCAL repeat-until statement:

```assembly
REPEAT
  <...
UNTIL(X = op1) or (Y > op2)
```

```assembly
repeat:
  <...
CMP X, op1
JE EndIf
CMP Y, op2
JNGE repeat
EndIf:
```

Now write the assembly code for the same statement, but with the “or” conditions changed to “and”. You may add new labels if necessary.

```assembly
REPEAT
  <...
UNTIL(X = op1) and (Y > op2)
```

```assembly
repeat:
  <...
CMP X, op1
  CMP Y, op2
EndIf:
```