CS 271 Computer Architecture and Assembly Language

Self-Check for Lecture#4

Solutions are posted

Solve each problem using the following data segment:

```asm
.data
k   DWORD  
n   DWORD  
x   DWORD  
y   DWORD  
z   DWORD  
yes BYTE    “Yes”, 0
no  BYTE    “No”, 0
maybe BYTE  “Maybe”, 0
```

Assume that variables have been initialized. Write MASM code to implement the following high-level pseudo-code decision structures.

1. if (k < n)
   print (yes);
else
   print (no);

2. if (k < n)
   print (maybe);
else
   if (k > n)
     print (no);
   else
     print (yes);

3. if ((x < y) AND (y < z))
   print (yes);
else
   print (no);

4. if ((x < y) OR (x > z))
   print (no);
else
   print (maybe);