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### **5d. Division of Two 16-Bit Numbers**

#### **PROGRAM**

```
2000  MOV  SI, 3000
2003  MOV  DI, 4000
2006  MOV  AX, [SI]
2008  INC   SI
2009  INC   SI
200A  MOV  BX, [SI]
200C  DIV  BX
200E  MOV  [DI], AX
2010  INC   DI
2011  INC   DI
2012  MOV  [DI], DX
2014  HLT
```

#### **OUTPUT**

SOURCE

```
3000  58
3001  59
3002  63
3003  61
```

DESTINATION

```
4000  00
4001  00
4002  58
4003  59
```