```
(1, 64, 224, 224)
                input:
     ReLU
     depth:2
               output:
                         (1, 64, 224, 224)
Sequential
                input:
                         (1, 64, 224, 224)
     Conv2d
     depth:2
                         (1, 64, 224, 224)
               output:
                            (1, 64, 224, 224)
                   input:
 BatchNorm2d
     depth:2
                  output:
                            (1, 64, 224, 224)
                         (1, 64, 224, 224)
                input:
     ReLU
     depth:2
               output:
                         (1, 64, 224, 224)
                           (1, 64, 224, 224)
                  input:
   MaxPool2d
     depth:2
                output:
                           (1, 64, 112, 112)
Sequential
                         (1, 64, 112, 112)
               input:
    Conv2d
    depth:2
                         (1, 128, 112, 112)
              output:
                  input:
                           (1, 128, 112, 112)
 BatchNorm2d
    depth:2
                 output:
                           (1, 128, 112, 112)
                        (1, 128, 112, 112)
               input:
     ReLU
    depth:2
                        (1, 128, 112, 112)
              output:
Sequential
               input:
                        (1, 128, 112, 112)
    Conv2d
    depth:2
              output:
                        (1, 128, 112, 112)
                           (1, 128, 112, 112)
                  input:
 BatchNorm2d
    depth:2
                 output:
                           (1, 128, 112, 112)
                        (1, 128, 112, 112)
               input:
     ReLU
    depth:2
              output:
                        (1, 128, 112, 112)
                         (1, 128, 112, 112)
                 input:
  MaxPool2d
    depth:2
                output:
                           (1, 128, 56, 56)
 Sequential
                         (1, 128, 56, 56)
                input:
     Conv2d
depth:2
               output:
                         (1, 256, 56, 56)
                             (1, 256, 56, 56)
                   input:
  BatchNorm2d
     depth:2
                            (1, 256, 56, 56)
                   output:
                         (1, 256, 56, 56)
                input:
      ReLU
     depth:2
               output:
                         (1, 256, 56, 56)
 Sequential
                input:
                          (1, 256, 56, 56)
     Conv2d
     depth:2
                          (1, 256, 56, 56)
               output:
                    input:
                             (1, 256, 56, 56)
  BatchNorm2d depth:2
                   output:
                            (1, 256, 56, 56)
                         (1, 256, 56, 56)
                input:
      ReLU
     depth:2
               output:
                         (1, 256, 56, 56)
 Sequential
                         (1, 256, 56, 56)
                input:
     Conv2d
     depth:2
                          (1, 256, 56, 56)
               output:
                   input:
                             (1, 256, 56, 56)
  BatchNorm2d
     depth:2
                   output:
                            (1, 256, 56, 56)
                         (1, 256, 56, 56)
                input:
      ReLU
     depth:2
               output:
                         (1, 256, 56, 56)
                           (1, 256, 56, 56)
                  input:
   MaxPool2d
     depth:2
                 output:
                           (1, 256, 28, 28)
 Sequential
                input:
                         (1, 256, 28, 28)
     Conv2d
     depth:2
                         (1, 512, 28, 28)
               output:
                            (1, 512, 28, 28)
                   input:
  BatchNorm2d
     depth:2
                            (1, 512, 28, 28)
                   output:
                input:
                         (1, 512, 28, 28)
      ReLU
     depth:2
               output:
                         (1, 512, 28, 28)
 Sequential
                        (1, 512, 28, 28)
                input:
     depth:2
               output: (1, 512, 28, 28)
                            (1, 512, 28, 28)
                   input:
  BatchNorm2d
     depth:2
                   output:
                            (1, 512, 28, 28)
                         (1, 512, 28, 28)
                input:
      ReLU
     depth:2 output:
                         (1, 512, 28, 28)
 Sequential
                input:
                         (1, 512, 28, 28)
     Conv2d
     depth:2
                         (1, 512, 28, 28)
               output:
                            (1, 512, 28, 28)
                   input:
  BatchNorm2d depth:2
                            (1, 512, 28, 28)
                   output:
                         (1, 512, 28, 28)
                input:
      ReLU
     depth:2
               output:
                         (1, 512, 28, 28)
                 input:
                           (1, 512, 28, 28)
   MaxPool2d
     depth:2
                 output:
                           (1, 512, 14, 14)
Sequential
                         (1, 512, 14, 14)
                input:
     Conv2d
depth:2
                         (1, 512, 14, 14)
               output:
                            (1, 512, 14, 14)
                   input:
  BatchNorm2d
     depth:2
                  output:
                            (1, 512, 14, 14)
                input:
                         (1, 512, 14, 14)
      ReLU
     depth:2
               output:
                         (1, 512, 14, 14)
 Sequential
                         (1, 512, 14, 14)
                input:
     Conv2d
     depth:2
                         (1, 512, 14, 14)
               output:
                   input:
                            (1, 512, 14, 14)
  BatchNorm2d depth:2
                            (1, 512, 14, 14)
                  output:
                input:
                         (1, 512, 14, 14)
      Rel U
     depth:2
               output:
                         (1, 512, 14, 14)
 Sequential
                         (1, 512, 14, 14)
                input:
     Conv2d
     depth:2
                         (1, 512, 14, 14)
               output:
                   input:
                            (1, 512, 14, 14)
  BatchNorm2d
     depth:2
                            (1, 512, 14, 14)
                   output:
                         (1, 512, 14, 14)
                input:
      ReLU
     depth:2
                         (1, 512, 14, 14)
               output:
                           (1, 512, 14, 14)
                  input:
   MaxPool2d
     depth:2
                            (1, 512, 7, 7)
                 output:
                  input:
                           (1, 512, 7, 7)
      reshape
       depth:1
                            (1, 25088)
                 output:
      Sequential
                            (1, 25088)
                   input:
        Dropout
        depth:2
                  output:
                            (1, 25088)
                            (1, 25088)
                   input:
        Linear
        depth:2
                  output:
                            (1, 4096)
                            (1, 4096)
                   input:
         ReLU
         depth:2
                  output:
                            (1, 4096)
       Sequential
                             (1, 4096)
                    input:
        Dropout
        depth:2
                             (1, 4096)
                   output:
                            (1, 4096)
                   input:
         Linear
        depth:2
                   output:
                            (1, 4096)
                   input:
                             (1, 4096)
          ReLU
        depth:2
                  output:
                            (1, 4096)
        Sequential
                             (1, 4096)
```

input:

output:

output-tensor

depth:0

(1, 10)

(1, 10)

Linear depth:2

input-tensor

depth:0

input:

output:

input:

output:

Sequential

Conv2d depth:2

BatchNorm2d depth:2

(1, 3, 224, 224)

(1, 3, 224, 224)

(1, 64, 224, 224)

(1, 64, 224, 224)

(1, 64, 224, 224)