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| **1** | **a** | **Hind limbs absent** | ***Siren*** |
|   | **b** | **Hind limbs present** | **Go to 2** |
| **2** | **a** | **External gills present in adults** | ***Mud puppy*** |
|   | **b** | **External gills absent in adults** | **Go to 3** |
| **3** | **a** | **Large size (over 7 cm long)** | **Go to 4** |
|   | **b** | **Small size (under 7 cm long)** | **Go to 5** |
| **4** | **a** | **Body background black, large white spots irregular in shape and size completely covering body & tail** | ***Tiger salamander*** |
|   | **b** | **Body background black, small, round, white spots in a row along each side fro eye to tip of tail** | ***Spotted Salamander*** |
| **5** | **a** | **Body background black with white spots** | **Go to 6** |
|   | **b** | **Body background light color with dark spots and or lines on body** | **Go to 7** |
| **6** | **a** | **Small white spots on a black background in a row along each side from head to tip of tail** | ***Jefferson salamander*** |
|   | **b** | **Small white spots on a scattered throughout a black background from head to tip of tail** | ***Slimy salamander*** |
| **7** | **a** | **Large irregular black spots on a light background extending from head to tip of tail** | ***Marbled salamander*** |
|   | **b** | **No large irregular black spots on a light background** | **Go to 8** |
| **8** | **a** | **Round spots scattered along back and sides of body, tail flattened like a tadpole** | ***Newt*** |
|   | **b** | **Without round spots and tail not flattened like a tadpole** | **Go to 9** |
| **9** | **a** | **Two dark lines bordering a broad, light mid-dorsal stripe with a narrow median dark line extending from the head onto the tail** | ***Two-lined salamander*** |
|   | **b** | **Without two dark lines running the length of the body** | **Go to 10** |
| **10** | **a** | **A light stripe running the length of the body and bordered by dark pigment extending downward on the sides** | ***Red-backed salamander*** |
|   | **b** | **A light stripe extending the length of the body, a marked constriction at the base of the tail** | ***Four-toed salamander*** |