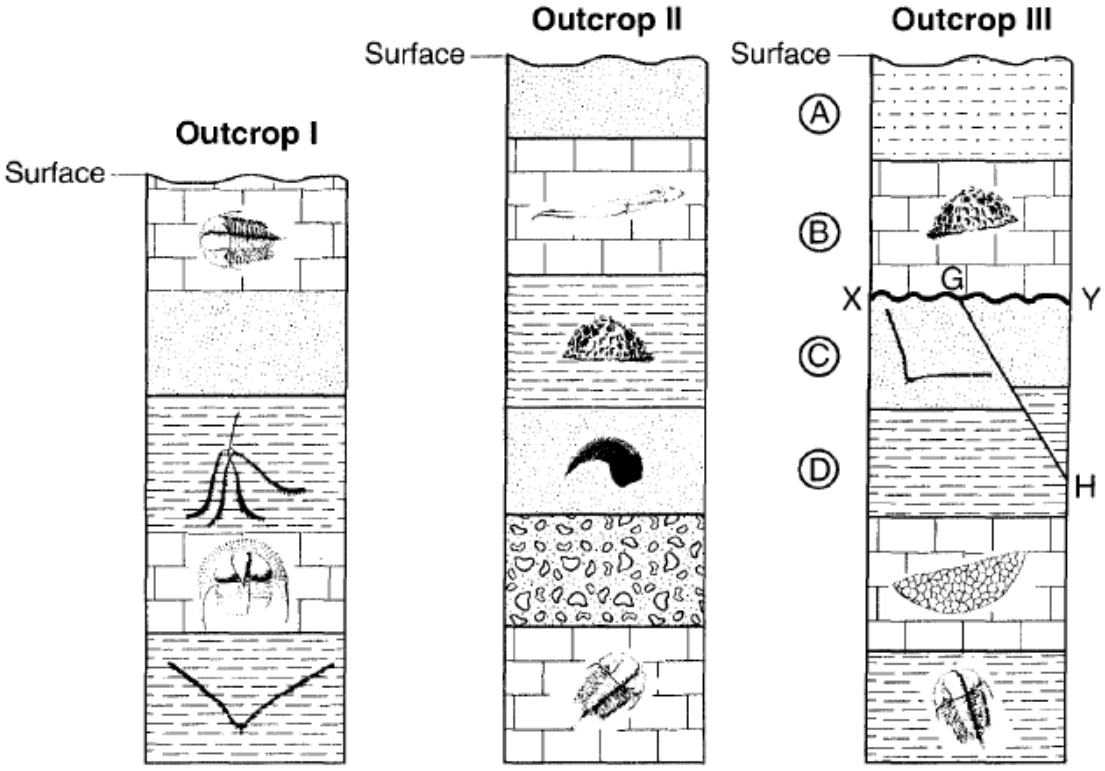
Procedure C: Answer the following:

1.)

Base your answer to the following question on the cross sections below, which show widely separated outcrops labeled I, II, and III. Index fossils are found in some of the rock layers in the three outcrops. In outcrop III, layers *A*, *B*, *C*, and *D* are labeled. Line *XY* represents an unconformity. Line *GH* represents a fault.



List in order, from oldest to youngest, the relative age of the four rock layers, *A*, *B*, *C*, and *D*, fault *GH*, and unconformity *XY* shown in outcrop III.

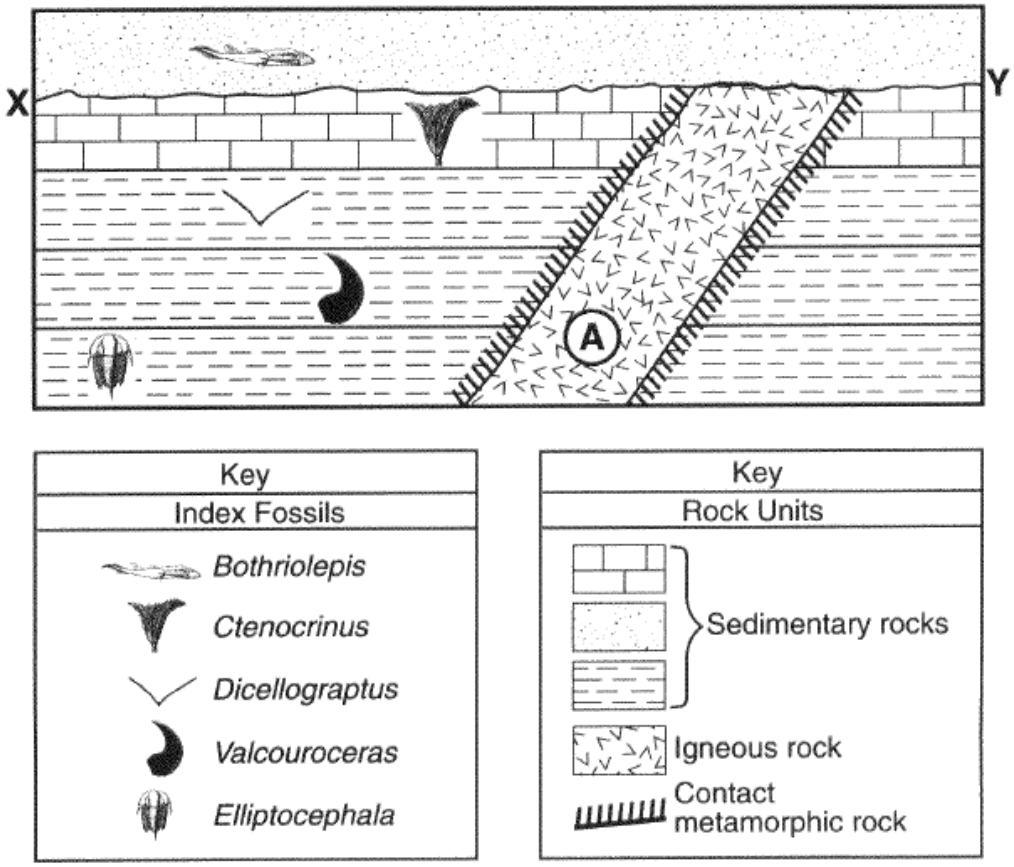
Answer:

_____

_____

2.)

Base your answer to the following question on the geologic cross section below. The cross section shows Vermont index fossils in rock layers that have not been overturned. Rock unit *A* is an igneous intrusion and line *XY* represents an unconformity.



Based on fossil evidence, determine the geologic period during which the unconformity formed

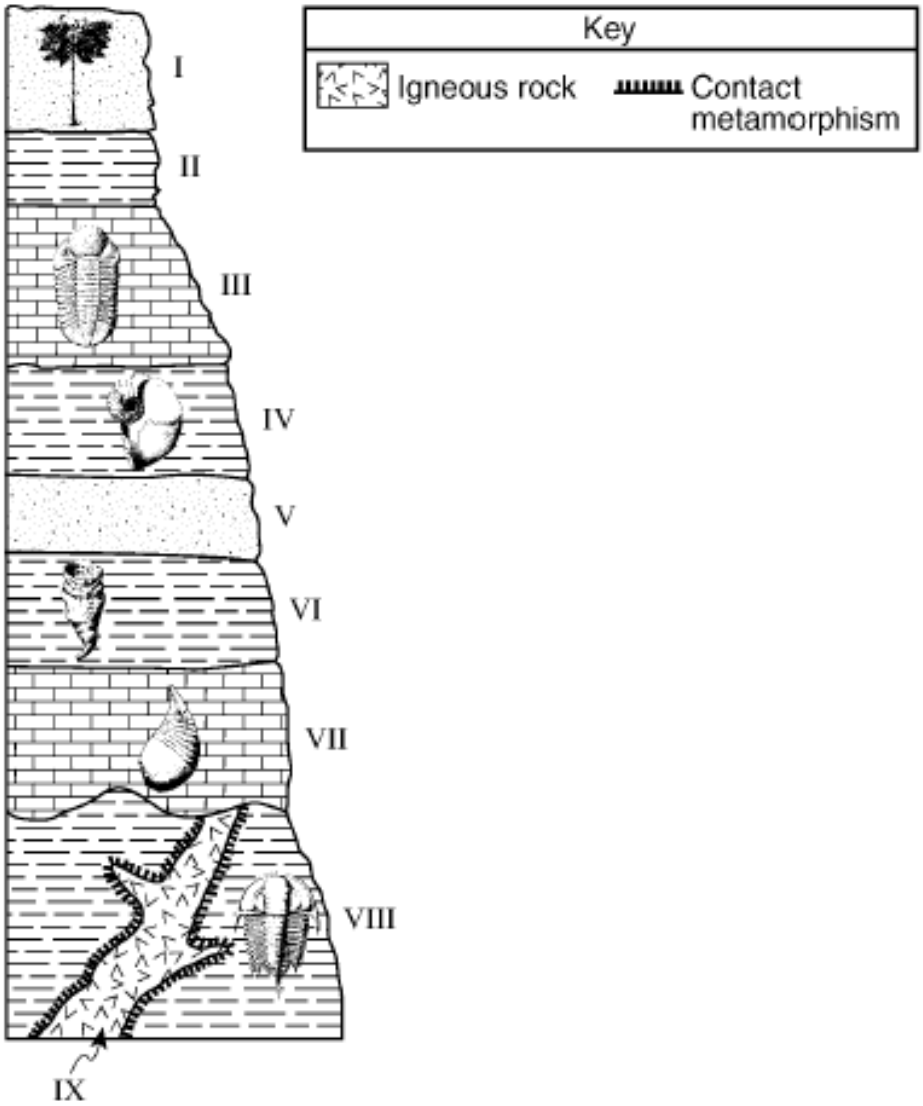
Answer:

_____

_____

3.)

Base your answer to the following question on the cross section of the bedrock outcrop shown below and on your knowledge of Earth science. Index fossils found in some of the rock units are shown. The rock units are labeled I through IX.



In the space provided, number the relative age of rock units VII, VIII, and IX from 1 to 3, with number 1 indicating the oldest rock and number 3 indicating the youngest rock.

Rock Unit VII: _____
Rock Unit VIII: _____
Rock Unit IX: _____