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#define CRT SECURE NO WARNINGS
#include <stdio.h>
/*
Title: Earthquake Information Center
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Description: The National Earthquake Information Center has asked you to
write a program implementing
the following decision table to characterize an earthquake based on its
Richter scale number.
* /
double earthquakeCatagory(richterNum);
int main(void)
     //variables
     double richterNum = 0.0;
     //getting input for earthquake
     printf("What was the Richter scale number for the earthquake?\n");
     scanf("%lf", &richterNum);
     //function for determening catagorization and damage caused
     earthquakeCatagory(richterNum);
     return(0);
}
//function for determening catagorization and damage caused
double earthquakeCatagory(double richterNum)
     if (richterNum < 5.0)
     {
                 printf("Little or no damage.");
     if (5.0 <= richterNum && richterNum < 5.5)
                 printf("Some damage.");
     if (5.5 <= richterNum && richterNum < 6.5)
                 printf("Serious Damage: walls may crack or fail.");
     if (6.5 <= richterNum && richterNum <= 7.5)
      {
                 printf("Disaster: houses and building may collapse.");
     if (richterNum > 7.5)
                 printf("Catastrophic: most buildings destroyed.");
      }
```

```
return(richterNum);
}
```