Debugging the Digestive System (Part 1)

Using the word bank at the bottom of this page, fill in the blanks of the code on Page 21 to help Esiw with processing food in the digestive system. To help you out, look at the example below for how the code might look.

**EXAMPLE**

Line 1: \texttt{Food1} = cooked chicken;
Line 2: \texttt{Food2} = uncooked chicken;
Line 3: \texttt{Mouth} = eats food;
Line 4: \texttt{if Mouth and Food1:}

Line 5: \texttt{Stomach} = not upset
Line 6: \texttt{else:}
Line 7: \texttt{Stomach} = upset;

This sample code represents what happens to your stomach if you eat raw versus cooked food. Lines 1, 2 and 3 are \texttt{variables} representing specific things. The \texttt{variable Food1} represents cooked food, the \texttt{variable Food2} represents uncooked food, and the \texttt{variable Mouth} represents eating the food. Lines 4 and 5 are saying that if your \texttt{Mouth} eats \texttt{cooked chicken}, your \texttt{Stomach} will not react. Lines 6 and 7 are saying that if you eat \texttt{uncooked chicken}, your \texttt{Stomach} will become upset.

**WORD BANK**

<table>
<thead>
<tr>
<th>Broken down into a liquid mixture</th>
<th>Esophagus</th>
<th>Broken down</th>
<th>Small Intestine</th>
</tr>
</thead>
<tbody>
<tr>
<td>not broken down</td>
<td>waste disposed of</td>
<td>separated into nutrients and waste</td>
<td>Stomach</td>
</tr>
</tbody>
</table>

Hi! Esiw here! In this activity, keep an eye out for conditional statements (like the one in the example above!). It may sound scary, but conditional statements here are whenever you see the word \texttt{if} in the code. This tells us that \texttt{if} something happens (like the \texttt{Mouth} eats \texttt{cooked chicken}), then the instructions below will happen (the \texttt{Stomach} is not upset)!
Debugging the Digestive System (Part 2)

Line 1: **Food** = apple;
Line 2: **Teeth** = chew **Food**;
Line 3: **Esophagus** = pathway for **Food**;
Line 4: **Stomach** = **Food** travels here from **Esophagus**;
Line 5: **Small_Intestine** = **Food** travels here from **Stomach**;
Line 6: **Liver** = separates nutrients from waste;
Line 7: **Large_Intestine** = waste travels through here;
Line 8: if **Teeth** and **Food**:
Line 9: 
Line 10: else:
Line 11: 
Line 12: if **Food** and ________________:
Line 13: 
Line 14: if **Food** and **Stomach**:
Line 15: 
Line 16: if **Food** and ________________:
Line 17: 
Line 18: if **Food** and **Liver**:
Line 19: 
Line 20: if **Food** and **Large_Intestine**:
Line 21: 

DIGESTIVE SYSTEM CODE

Line 1: **Food** = apple;
Line 2: **Teeth** = chew **Food**;
Line 3: **Esophagus** = pathway for **Food**;
Line 4: **Stomach** = **Food** travels here from **Esophagus**;
Line 5: **Small_Intestine** = **Food** travels here from **Stomach**;
Line 6: **Liver** = separates nutrients from waste;
Line 7: **Large_Intestine** = waste travels through here;
Line 8: if **Teeth** and **Food**:
Line 9: **Food** = ___________________________
Line 10: else:
Line 11: **Food** = ___________________________
Line 12: if **Food** and ________________:
Line 13: **Food** = moves down to stomach;
Line 14: if **Food** and **Stomach**:
Line 15: **Food** = ___________________________
Line 16: if **Food** and ________________:
Line 17: **Food** = broken down further and nutrients absorbed;
Line 18: if **Food** and **Liver**:
Line 19: **Food** = ___________________________
Line 20: if **Food** and **Large_Intestine**:
Line 21: **Food** = ___________________________