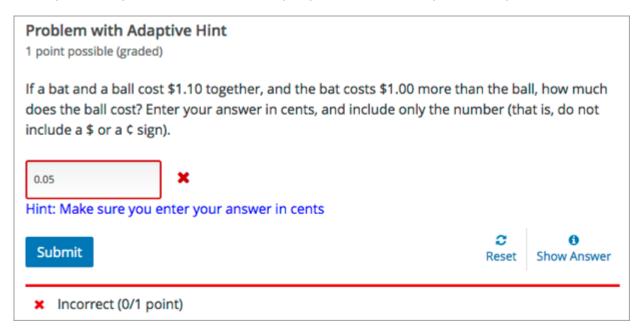
10.36. Problem with Adaptive Hint

Note

EdX does not support this problem type.

A problem with an adaptive hint evaluates a student's response, then gives the student feedback or a hint based on that response so that the student is more likely to answer correctly on the next attempt. These problems can be text input problems or multiple choice problems.



10.36.1. Create a Problem with an Adaptive Hint

To create the problem illustrated above, follow these steps.

- 1. In the unit where you want to create the problem, click **Problem** under **Add New Component**, and then click the **Advanced** tab.
- 2. Click **Problem with Adaptive Hint**.
- 3. In the component that appears, click **Edit**.
- 4. In the component editor, replace the example code with the code below.
- 5. Click Save.



```
oblem>
        <text>
            <script type="text/python" system_path="python_lib">
    def test_str(expect, ans):
     print expect, ans
     ans = ans.strip("'")
     ans = ans.strip('"')
     return expect == ans.lower()
    def hint_fn(answer_ids, student_answers, new_cmap, old_cmap):
     aid = answer_ids[0]
     ans = str(student_answers[aid]).lower()
     print 'hint_fn called, ans=', ans
     hint = ''
     if '0.05' in ans:
         hint = 'Make sure you enter your answer in cents'
     if hint:
       hint = "<font color='blue'&gt;Hint: {0}&lt;/font&gt;".format(hint)
        new_cmap.set_hint_and_mode(aid,hint,'always')
           </script>
           If a bat and a ball cost $1.10 together, and the bat costs $1.00 more than
the
           ball, how much does the ball cost? Enter your answer in cents, and include
only
           the number (that is, do not include a $ or a $ sign).
            >
                <customresponse cfn="test_str" expect="5">
                    <textline correct_answer="5" label="How much does the ball cost?"/>
                    <hintgroup hintfn="hint_fn"/>
                </customresponse>
            </text>
</problem>
```

10.36.2. Problem with Adaptive Hint XML

10.36.2.1. Template

```
oblem>
  <text>
    <script type="text/python" system_path="python_lib">
def test_str(expect, ans):
 print expect, ans
 ans = ans.strip("'")
 ans = ans.strip('"')
 return expect == ans.lower()
def hint_fn(answer_ids, student_answers, new_cmap, old_cmap):
 aid = answer_ids[0]
 ans = str(student_answers[aid]).lower()
 print 'hint_fn called, ans=', ans
 hint = ''
 if 'incorrect answer 1' in ans:
    hint = 'hint for incorrect answer 1'
 elif 'incorrect answer 2' in ans:
    hint = 'hint for incorrect answer 2'
 if hint:
    hint = "<font color='blue'&qt;Hint: {0}&lt;/font&qt;".format(hint)
    new_cmap.set_hint_and_mode(aid,hint,'always')
</script>
    TEXT OF PROBLEM
    <
     <customresponse cfn="test_str" expect="ANSWER">
        <textline correct_answer="answer" label="LABEL TEXT"/>
        <hintgroup hintfn="hint_fn"/>
     </customresponse>
    </text>
</problem>
```

• Note

If the hints that you supply include characters, the letters must be lowercase.

10.36.2.2. Tags

- <text> : Surrounds the script and text in the problem.
- <customresponse> : Indicates that this problem has a custom response.
- <textline> : Creates a response field in the LMS where the student enters a response.
- hintgroup: Specifies that the problem contains at least one hint.

Attributes

(none)

Children

- <textline>
- <hintgroup>

Tag: <textline>

Attributes

Attribute	Description
label (required)	Contains the text of the problem.
size (optional)	Specifies the size, in characters, of the response field in the LMS.
hidden (optional)	If set to "true", students cannot see the response field.
correct_answer (optional)	The answer to the problem. To supply a correct_answer value that includes letters, all letters must be lowercase . (Students' responses to the problem are not case sensitive. They can contain both uppercase and lowercase letters.)

Children

(none)

Tag: <hintgroup>

Attributes

Attribute	Description
hintfn	Must be set to hint_fn (that is, the tag must appear as).



Next **•**

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