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## Questions

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### Recursive Grammars

2/2 points (graded)

Recall these grammars from the reading:

```
markdown ::= ( normal | italic ) *  
italic   ::= '_' normal '_'  
normal   ::= text  
text     ::= [^_]*
```

```
html ::= ( normal | italic ) *  
italic ::= '<i>' html '</i>'  
normal ::= text  
text    ::= [^<>]*
```

Look carefully at the *italic* productions in these grammars, and notice that not only do they differ in delimiters (underscores vs. < > tags), but also in the nonterminal that is matched between those delimiters. One grammar is recursive; the other grammar is not.

For each string below, if you match the specified grammar against it, which letters are inside matches to the italic nonterminal? Your answer should be some subset of the letters abcde.

markdown: a\_b\_c\_d\_e

✓ Answer: bd

html: a<i>b<i>c</i>d</i>e

✓ Answer: bcd

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