Problem: Two from the First and One from the Second

Write a program that allows the user to enter two words and builds a new word by repeatedly interleaving two letters from the first word with one letter from the second word until either source has been exhausted.

Examples:

| \mathbf{first} | \mathbf{second} | new |
|--------------------------|-------------------|------------------|
| abcdefgh | ABCDEFGH | abAcdBefCghD |
| $\operatorname{abcdefg}$ | ABCDEFGH | ${ m abAcdBefC}$ |
| $\operatorname{abcdefg}$ | AB | ${ m abAcdB}$ |
| \mathbf{best} | aspect | beasts |
| spree | ossify | spores |

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