```python
a=eval(input())
def new(c):
    try:
        for k in c:
            if type(c[k])==type({}):
                for i in c[k]:
                    c[k+i]=b[k][i]
                c.pop(k)
                new(c)
        else:
            print(c)
    except RuntimeError:
        pass
new(a)
```

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