In [4]:

```python
#write a python class to implement power(x,n)

class py_solution:
    def pow(self, x, n):
        if x==0 or x==1 or n==1:
            return x


        if x==1:
            if n%2 ==0:
                return 1
            else:
                return -1
        if n==0:
            return 1
        if n<0:
            return 1/self.pow(x,-n)
        val = self.pow(x,n//2)
        if n%2 ==0:
            return val*val
        return val*val*x
print(py_solution().pow(10,2))

```

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100
```

In [ ]:

```python

```