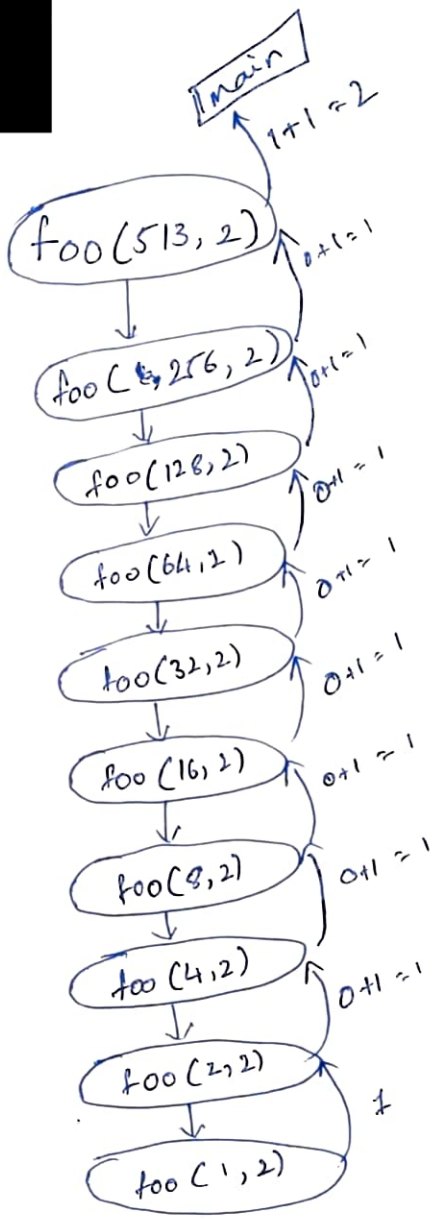
Dec 30 - Question 5
(T. Sai Ranav - tsp.workacc@gmail.com)

Code:

```
foo(int n,int r){
    if(n>0)
        return (n%r + foo(n/r,r));
    else return 0;
}

main(){
    print(foo(513,2));
}

A) 9
B) 8
C) 5
D) 2
```



⇒ n%r + foo( )

D) 2 is the answer.

Code:

What does the following function do?

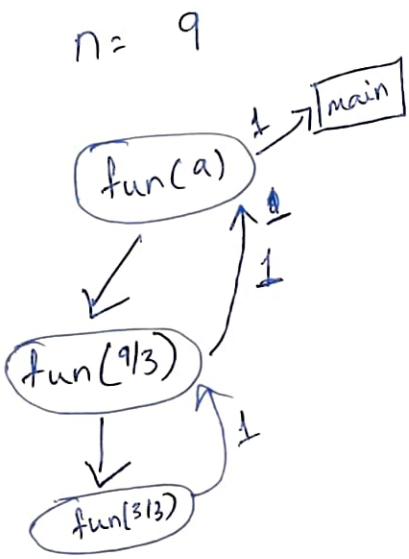
```
int fun(unsigned int n)
{
    if (n == 0 || n == 1)
        return n;

    if (n%3 != 0)
        return 0;

    return fun(n/3);
}
```

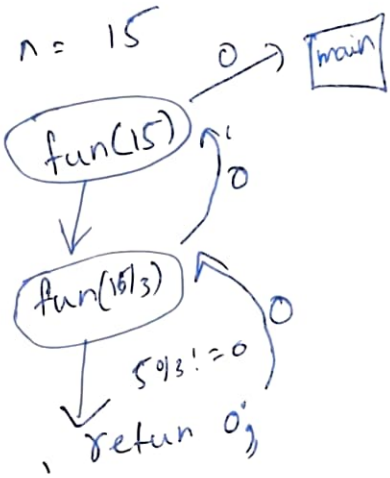
A. It returns 1 when n is a multiple of 3, otherwise returns 0

B. It returns 1 when n is a power of 3, otherwise returns 0

C. It returns 0 when n is a multiple of 3, otherwise returns 1

D. It returns 0 when n is a power of 3, otherwise returns 1





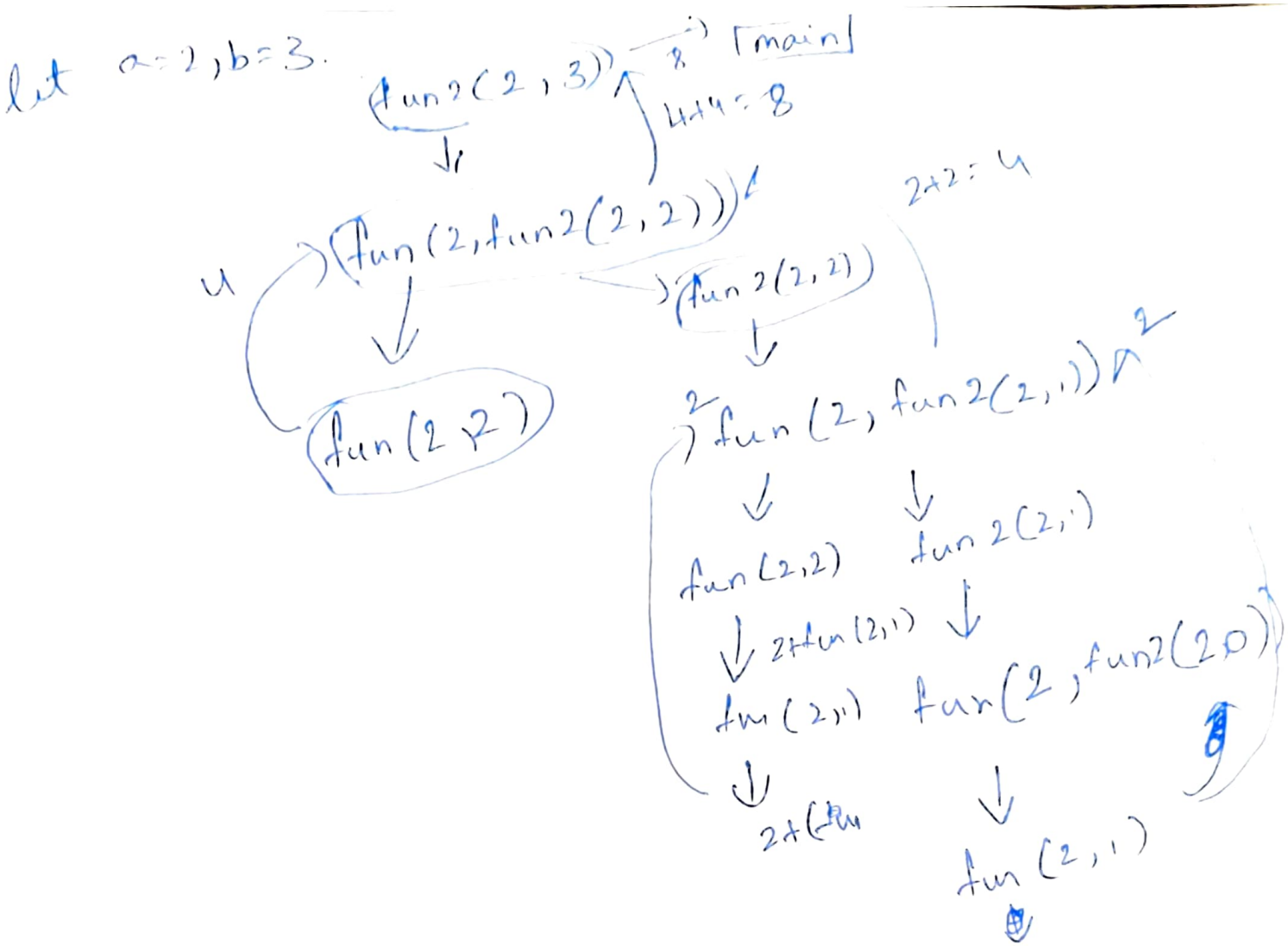
∴ B) It returns 1 when n is a power of 3, otherwise returns 0.

A x*y

B x+x*y

C x^y

D y^x



∴ C) x^y is the answer