

```
1 int fourthBit(int number)
2
3 {
4
5     int binary[32];
6     int i=0;
7     while(number>0)
8     {
9         binary[i]=number%2;
10        number/=2;
11        i++;
12    }
13    if(i>=4)
14    {
15        return binary[31];
```

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```
11 i++;  
12 }  
13 if(i>=4)  
14 {  
15 return binary[3];  
16 }  
17 else  
18 return 0;  
19 }
```

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	Test	Expected	Got	
✓	<code>printf("%d", fourthBit(32))</code>	0	0	✓
✓	<code>printf("%d", fourthBit(77))</code>	1	1	✓

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```
1 long primeFactor(long n, long p)
2
3 {
4
5     int count=0;
6     for(long i=1;i<=n;++i)
7     {
8         if(n%i==0)
9         {
10
11             if(n%i==0)
12             {
13                 count++;
14                 if(count==p)
15                 {
16                     return i;
17                 }
18             }
19         }
20     }
21     return 0;
22 }
```

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	Test	Expected	Got	
✓	<code>printf("%ld", pthFactor(10, 3))</code>	5	5	✓
✓	<code>printf("%ld", pthFactor(10, 5))</code>	0	0	✓
✓	<code>printf("%ld", pthFactor(1, 1))</code>	1	1	✓

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```
1 int myFunc(int n)
2 {
3 while(n%10==0 || n%20==0)
4 {
5 if(n%20==0)
6 {
7 n/=20;
8 }
9 else{
10 n/=10;
11 }
12 }
13 return n==1?1:0;
14 }
```

	Test	Expected	Got	
✓	<code>printf("%d", myFunc(1))</code>	1	1	✓
✓	<code>printf("%d", myFunc(2))</code>	0	0	✓
✓	<code>printf("%d", myFunc(10))</code>	1	1	✓
✓	<code>printf("%d", myFunc(25))</code>	0	0	✓
✓	<code>printf("%d", myFunc(200))</code>	1	1	✓

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```
2  int powerSum(int x, int m, int n)
3  {
4      int p=pow(m,n);
5      if (p==x)
6      {
7          return 1;
8      }
9      if(p>x)
10     {
11         return 0;
12     }
13     return powerSum(x-p,m+1,n)+powerSum(x,m+1,n);
14 }
```

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	Test	Expected	Got	
✓	printf("%d", powerSum(10, 1, 2))	1	1	✓

Passed all tests! ✓