GULZHAR AHAMAD VM
ECE-B
240801090

```c
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[3];
```

```
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	
✓	printf("%d", fourthBit(32))	0	0	✓
✓	printf("%d", fourthBit(77))	1	1	✓

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```
1  long pthFactor(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 ▾ {
```

```
7 ▾ {
8  if(n%i==0)
9 ▾ {
10 count++;
11 if(count==p)
12 ▾ {
13 return i;
14 }
15 }
```

```
13 return i;
14 }
15 }
16 }
17 return 0;
```

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	Test	Expected	Got	
✓	printf("%ld", pthFactor(10, 3))	5	5	✓
✓	printf("%ld", pthFactor(10, 5))	0	0	✓
✓	printf("%ld", pthFactor(1, 1))	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  }
```

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	Test	Expected	Got	
✓	printf("%d", myFunc(1))	1	1	✓
✓	printf("%d", myFunc(2))	0	0	✓
✓	printf("%d", myFunc(10))	1	1	✓
✓	printf("%d", myFunc(25))	0	0	✓
✓	printf("%d", myFunc(200))	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! ✓