

In[331]:=

```
PrimePowerPi[x_] := (  
  y = Flatten[Union[Table[Prime[Range[PrimePi[x^(1/b)]]] ^ b, {b, 1, Floor[Log[2, x]]}]]];  
  Length[Select[y, Function[z, z ≤ x]]]  
  PrimePowerPi[10]  
  PrimePowerPi[200]  
  PrimePowerPi[10^5]  
  PrimePowerPi[10^7]  
  PrimePowerPi[10^8]
```

Out[332]=

7

Out[333]=

60

Out[334]=

9700

Out[335]=

665 134

Out[336]=

5 762 859