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Source code:

```
#include <iostream>
#include <string>
#include <math.h>
using namespace std;
int bin2Dec(const string &binaryString){
  int bin2Dec {0};
  for (int i {0}; i < binaryString.length(); i++){</pre>
      bin2Dec += (binaryString[i] - 48) * POWERS OF TWO[i]; //
  return bin2Dec
int main(){
  string binaryNum;
  cout << "Please enter a binary number: ";</pre>
  cin >> binaryNum;
  cout << endl;
  cout << binaryNum << " to decimal is: " << bin2Dec(binaryNum) << endl;</pre>
```

output:

Please enter a binary number: 101

101 to decimal is: 5