**Suitmedia Competency Test**

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**Applied Position : Software Engineer Intern**

Please implement *countBits* function that counts the number of consecutive bits in binary representation of the given number.

intcountBits(int number, intbitNumber)

Example:

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| --- |
| // Binary representation of 13 is 1101  countBits(13, 0) → returns 1  countBits(13, 1) → returns 3  countBits(13, 2) → returns null |

**PS:**

You have to use your own logic to get the binary representation of the given number.

**Programming Language :**

**Ideone.com URL :**

**Solution :**

A thesaurus contains words and synonyms for each word. Please write a *Thesaurus* class, that would accept these method calls:

add(String word, Array synonyms) : returns void

getSynonyms(String word) : returns array of strings

Example:

|  |
| --- |
| $thesaurus = new Thesaurus();  $thesaurus->add(‘big’, [‘large’, ‘great’]);  $thesaurus->add(‘big’, [‘huge’, ‘fat’]);  $thesaurus->add(‘huge’, [‘enormous’, ‘gigantic’]);  // returns [‘large’, ‘great’, ‘huge’, ‘fat’]  $thesaurus->getSynonyms(‘big’);  // returns [‘big’, ‘enormous’, ‘gigantic’]  $thesaurus->getSynonyms(‘huge’);  // returns [‘huge’]  $thesaurus->getSynonyms(‘gigantic’);  // returns null  $thesaurus->getSynonyms(‘colossal’); |

**Programming Language : Java**

**Ideone.com URL :** https://ideone.com/03mrYx

**Solution :**