PHP

Question #3

function findNumber(Array $arr, $x)

{

// check if the array is empty

if (count($arr) === 0) return -1;

$low = 0;

$high = count($arr) - 1;

while ($low <= $high) {

// get middle index

$mid = floor(($low + $high) / 2);

// element found at mid

if($arr[$mid] == $x) {

return -1;

}

if ($x < $arr[$mid]) {

// search the left side of the array

$high = $mid -1;

}

else {

// search the right side of the array

$low = $mid + 1;

}

}

// If we reach here element x does not exist

return -1;

}

MySQL

1. These are the tables that we must create :

* users (id, user\_firstname, user\_lastname)
* skills (id, skill\_name,skill\_level,skill\_usage,skill\_last\_used)
* users\_skills (id, user\_id, skill\_id, user\_skill\_last\_modified, user\_skill\_date\_created, user\_skill\_endorsed)

1. select

users.user\_firstname,

users.user\_lastname,

skills.skill\_name

FROM users\_skills

JOIN users ON users\_skills.user\_id = users.id

JOIN skills ON users\_skills.skill\_id = skills.id

where users\_skills.user\_id=1 limit 10

( i considered that we are fetching data only for this use r“user\_id=1”, if not remove “where users\_skills.user\_id=1”)