class Result {

/\*

\* Complete the 'isPower' function below.

\*

\* The function is expected to return an INTEGER\_ARRAY.

\* The function accepts INTEGER\_ARRAY arr as parameter.

\*/

public static List<Integer> isPower(List<Integer> arr) {

// Write your code here

int j = 0;

int n = arr.size();

List<Integer> r = new ArrayList(n);

for(int i: arr){

if (i == 0){

r.add(j,0);

j++;}

else {

while (i != 1) {

if (i % 2 != 0) {

r.add(j,0);

j++;}

else{

i = i / 2;}

}

r.add(j,1);

j++;

}

}

return r;

}

}