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Write MALP for the following using procedures
1. Recursive binary search
int bin search(int A[], int data, int lo, int hi)
 int mid;
 if (lo > hi) return -1
 mid = (lo + high)/2;
 if ( data == A[mid]) return mid
 if ( data < A[mid]) return bin search(A, data, lo, mid-1)</pre>
 return bin search(A, data, mid+1, high)
}
2. Power of a given number using recursion
int power (int a, int n)
{
    if (n == 1)
       return a;
    return a * power(n - 1);
}
main()
 pow = power(a, n);
3. Sum of N natural numbers using recursion
int RSum(int n)
    if (n == 1)
       return n;
    return n + RSum(n - 1);
}
main()
 sum = RSum(n);
```