WAP to print sum of series.

```
#include <stdio.h>
#include <math.h>
int sum (int)
    void main()
    { int s, num;
      printf("Enter no. of term:"); //
      scanf("%d", &num);
      s = sum(num); //
      printf("The sum of series is %d", s);
      getch();
    }
int sum (num)
    {
      if (num==1) //
      { return 1;
      }
      else.
      { return (term(num) + sum(num-1)); //
      }

int term (int num)
    {
      if (num==1)
      { return 1;
      } else
      { return (term(num-1)*10+1);
      }
    }
```

return (term + sum (num + 1)

return (term (num - 1) * 10 + i);
when num = 5.

i) return (1 + sum (num - 1))
ii) return (1111 + { term (1) + sum 3)
iii) return (1111 + 1111 + term (3) + sum 2)
iv) return (1111 + 1111 + 111 + term (2) + sum 1)
v) return (1111 + 1111 + 111 + 11 + 1)

At last it return to the
S = sum (num)
& S = 12345
is printed.

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#include <math.h>
int sum (int)
    void main()
    { int s, num;
      printf("Enter no. of term");
      scanf("%d", &num);
      s = sum(num);
      printf("The sum of series is %d", s);
      getch();
    }
int sum (num)
{
   if (num==1)
   { return 1;
   }
   else.
   { return (term(num) + sum(num-1));
   }

int term (int num)
{
   if (num==1)
   { return 1;
   } else
   { return (term(num-1)*10+1);
   }
}
```

```
return (term + sum (num+1)

return (term(num-1) * 10 + 1);
```

when num = 5.

i) return (11111 + sum(num-1))
ii) return (11111 + (term(1) + sum 3)
iii) return (11111 + 1111 + term(3) + sum 2)
iv) return (11111 + 1111 + 111 + term(2) + sum 1)
v) return (11111 + 1111 + 111 + 11 + 1)

At last it return to the
S = sum(num)
& S = 12345
is printed.