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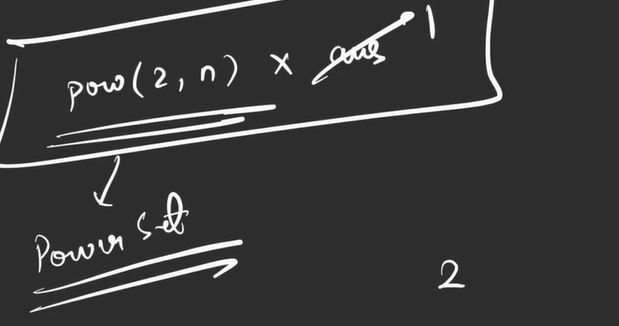
The given question is counting the number of subsets whose sum equal to k.

Above would be 4 is number of subset equal to 1.

![Graphical user interface, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGFkbWluAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMwMwAAkpIAAgAAAAMwMwAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAJIJ5badJreRo5Y2DI6HBUjuDXZR/GDxxHafZ11tiAu0SNChkx/vYzXE0UAWLu9utQvJLm9nkuJ5G3PLK25mP1qvRRQAU5HaNgyMVZTkEHBBptFAHXQ/FLxpBYi0j8QXQiC7RnaWA/wB4jNcvdXU97cvcXczzTSHLySMWZj7k1DRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHd/Bl0X4packrbVninh57lozgVx2p2klhqt1aToUkgmeNlI6EMRXVeArbRNOuE8TeIdX+zx6fOGgsrY5uLiQDIwP4V96xPF2vDxP4sv8AWBbLbC7l3iJTnaAMdfX1oA0vhgksnxP0FYEjd/tYOJFyAADk49QOldRLf6j4u/aC8+xdwlrfhVcHAigiOGY+gwDn1zXAeG9duPDPiOy1izRJJrSTeEf7rjGCD+BNdPrXxJW4sLu08M6JbaCuoMWvZoZC8s+eSu49F9hQBjePtUt9a8f6zqFkQbea6YxsP4gOM/jiqEulxR+F7fVftDGaa8ktzDt4VVQNuz9TWZ07fSp3vJ3sYrNpCbeF2kRMDhmxk/oKAIRjPPTvXrGt+F5df+LVzdXoNtolpBbT3N5IuEWBYUIAbuTjAAryatK68Q6ve6ZDp15qd1PZQACK3eUlFA6ce1AG74t8ZReIPH8+tyWST2kQ8q1tpThQijCbh3GeSO/SrfxKETQ+G55IYYdRuNJSW8EMYjBJPynaOAcVwwPrzWhrmt3Wv6tJqF9t8x1VQqDCoqjCqB6ACgBtjqbWemajZrEGF8kaFs/d2vu/XFdr4cnHhH4Xah4jthnU9WuG0y2kx/qIwuZGHua88zXfaU3n/AnxAl0cpbapbvbZ7Oy4bH4UAcBmoZf9YPpUx61DL/rB9KAG0UUUAFOh+81Np0P3mpsCaiiikAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRWzofhPW/Em86Np8tzGhw0vCop9CzYGfagDGorQ1rQ9Q8Pam+n6vbNbXKAMUYg5B6EEdRWfQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAZooooAKKKKACiiigAooooAKKKKAFHWus1jVra1+Hui+H7CVZHmd9RvihziRiVjQ+4UZ/GuSooAKhl/wBYPpU1Qy/6wfSgBtFFFABTofvNTadD95qbAmooopAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAH7pOe1ewabokPh/wAF6b4j8ZNqOtrJGHsNKtQxgjHYyMvH+e9eQduK7b4d6z4yl1y10Twrqk0YmbmGU74UUfeYqewFAGB4p8SXvivxBPqepbFkcBViQYWJBwFA9BWPXsvxq1jw99jg0SGK2u9fgkU3V9BCsYXAOVOO5yOO1eNUAdH4e0DS7u1OoeJtWbS9PMnkxGKAyyTOBlsDsFBGT74qfxx4Im8H3lq8Vyl/pl/H5tneRjAkX0I7Hms/wxod94s8QWOh2bsTI5xk5WJert+Q/lXb/GPXNPDaX4Q0UiS10KPy5Jc5zJgDGfYdfc0AeXUUUUAFFFdPp3hCz1CyiuD4s0G1LqC0VxM6uh9CNvX6UAc/ZWc2oX8FnaLvnuJBHGpIGWJwBk8Vb1vw9q3hy/NnrVhNZzdhIvDD1B6EfSt4+GPDenkPqHje0kdTkJplpJO34E4FdHZfEfQorX+xdWtdU8SaZPIN76myb4s8Fo1XJB9t1AHllFdn8TPB1t4Q163TTZ3ksb6AXMCyjEkak/dYVxo549eKALmraTeaLfG01GLypQiuBnIKsu5SD3BBqlXonxEiW+8E+CtdHMtxp/2WVh3MZ4z+ted0AFFFFABRRRQAUUZx1PFdIPBGpCytpbiazt7m8j820sppsTzp6hcYGe2SM9qAObopSMHBBH1FJQAUUUUAFFFeg2HiPwbcznRtZ8P28elgCODU7QMtzFwMu397JzmgDz7pRXX+Mfh7feGY01C0lXU9EuMGDULflcHoGx90/pXI9enrQAlFFFABRRRQAVDL/rB9KmqGX/WD6UANooooAKdD95qbTofvNTYE1FFFIAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACvV/gIyR6/rkyjN1FpjNAO5OTn+leUVu+DvFV14O8RxatZxJMVVo5IXJCyIwwQSKAMe4mluLiWadi0sjl3LdSxOT+tRVo67qkes6xPfQ2Ftp6SnIt7ZcIn+J7k1nUAeifBbW9O0fxpNHqkwtft9qbWC5P/LKQnj6Z9fXFZPxE8C3/gjXvLvJvtdvd7pILrGPM553ejc81j+GNDn8R+JrDSbXIkupQhYfwr1ZvwAr0/4+eINPnbSvDtjL9on03LTyZyUO0KFJ/vYGTQB41RS0lABS5PrSUUALknvV/RNZuNA1eHUrOOCSeAkxi4i8xQcdcHuO1Z9FAF/WNa1DX9Sk1DWLuS7uZOGkkPbsAOw9qoUUZxQB32pzi7+A+iZOXstWmh+gK7h/OuBqz/aF3/Zn9nee/wBj87zzBn5fMxjd9cVWoAKKKKACiiigB0ZCyozLuVWBK+oB5H5V23xIhu38UDxNZO0mmah5c1jdR8qm1QBH/sspGMVw9b3h3xbfeHvMgRYrzT7ji4sLpd8Mv4fwn3HNAGRe3T317NdSqqvNIZHVBhQx5OB2qCu08YeHdMj8M6X4r8OLNbWGpyPE9nOdxt5F6hW/iXg4ri6ACtG70O8stDsNWlVTaX5kWJ1OcMjYIPoe/wBKzq73w8y638KPEOjv81xpkqapbDvtztkA/A5oA4KilIwa6X4eaHF4i+IGkabdDMEk+6Uf3lUFiPxxigD074aWFz4U+H2p6x4yuvJ0C8hIi02dd3mk9GAPQt0AHXrXhshUyPsXahY7VznA7CvQfjL4quNb8a3GmRyFdP0tvIihU4XeB8zY9e30FeeUAFFFFABRRRQAVDL/AKwfSpqhl/1g+lADaKKKACnQ/eam06H7zU2BNRRRSAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAJ7O8udPu47qxuJbeeM5SWJyrL9CKikkeWRnkdnZiWZmOST65ptFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUeuOuDRRQB6V8ULuO38L+DdF0/AsY9MW7BH8bvwSf1/OvNakknmmWNZpXkWJdkYdiQi9cD0HtUdABVvT9TvNLkmewnaFpoXgkK/xIwwy/jVSigArV8Na9P4Z8SWOsWih5LSUPsPRxjBX8Qayqkt4JLq5it4F3yyuERfVicAUAenfEfwxZa5pZ+IHhKTzbC6bN/Afv28p4Jx9ev515bXs/i690/4dfDH/hB7KaO41jUBv1BkORHnBOffgAD05rxg9aACiiigAooooAKhl/1g+lTVDL/rB9KAG0UUUAFOh+81Np0P3mpsCaiiikAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUoJBBHBFJRQA6SR5pGklZndjlmZiST7k02iigAooooAKKKKACoZf9YPpU1Qy/6wfSgBtFFFAH/9k=)

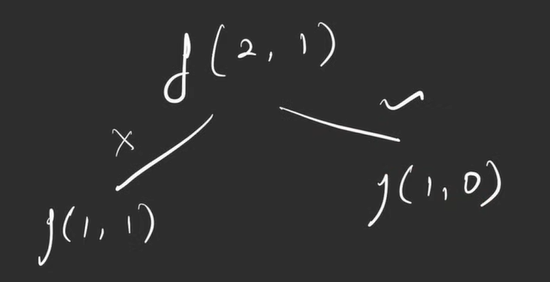
Here 0 can be represented by 0,0 ,00, {} empty subset and by adding 1 we can get the ans.



Here how many ways 2 can be represented: can be don’t by power set given above.

 here this will not work as

Consider for the example 0,0,1 now see the recursion table.



See the code will return 1 without checking the 0 at index 0.hence we need to go deep .hence remove this condition.



Consider at index 0 index value is 0 and sum is 0 then what should we return.

Graphical user interface, application, Word

Description automatically generated