

Q16: Write an Algorithm to evaluate the following equation:

$$Y = \frac{1}{6!} + \frac{4!}{11!} + \frac{7!}{16!} + \frac{10!}{21!} \dots \dots \dots N \text{ Terms}$$

Solution:

- 1- Start
- 2- Read N
- 3- Y=0, I=0
- 4- I=I+1
- 5- F1=1, IF1=0
- 6- IF1=IF1+1
- 7- F1=F1*IF1
- 8- If IF1 < (3*I-2) go to 6
- 9- F2=1, IF2=0
- 10- IF2=IF2+1
- 11- F2=F2*IF2
- 12- If IF2 < (5*I+1) go to 10
- 13- Y=Y+F1/F2
- 14- If I < N go to 4
- 15- Print N
- 16- End