DSA ASSIGNMENT

POLYNOMIAL USING LINKED-LIST

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```
zaid Desktop $ g++ Polynomial.cpp
zaid Desktop $ ./a.out
Enter the number of terms in  polynomial 1 : 2
Enter the Polynomial 1 (highest power first)
Choose your variable either x/y/z
x
Enter the Coefficient and Exponent values: 2
3
Choose your variable either x/y/z
y
Enter the Coefficient and Exponent values: 1
1
Enter the number of terms in  polynomial 2 : 2
Enter the polynomial 2  (highest power first)
Choose your variable either x/y/z
x
Enter the Coefficient and Exponent values: 4
5
Choose your variable either x/y/z
y
Enter the Coefficient and Exponent values: 1
3
Enter your choice
 1. Addition
 . 2. Multiplication
2
Plynomial 1 is:
2x^3 + y^0 + z^0+1x^0 + y^1 + z^0
Polynomial 2 is:
4x^5 + y^0 + z^0+1x^0 + y^3 + z^0
The Product is : 8x^8 + y^0 + z^0+2x^3 + y^3 + z^0+4x^5 + y^1 + z^0+1x^0 + y^4 + z^0
zaid Desktop $ █
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```
zaid Desktop $ ./a.out
Enter the number of terms in  polynomial 1 : 3
Enter the Polynomial 1 (highest power first)
Choose your variable either x/y/z
x
Enter the Coefficient and Exponent values: 4
5
Choose your variable either x/y/z
y
Enter the Coefficient and Exponent values: 2
4
Choose your variable either x/y/z
z
Enter the Coefficient and Exponent values: 1
2
Enter the number of terms in  polynomial 2 : 2
Enter the polynomial 2  (highest power first)
Choose your variable either x/y/z
y
Enter the Coefficient and Exponent values: 2
5
Choose your variable either x/y/z
z
Enter the Coefficient and Exponent values: 8
0
Enter your choice
 1. Addition
 . 2. Multiplication
1
Plynomial 1 is:
4x^5 + y^0 + z^0+2x^0 + y^4 + z^0+1x^0 + y^0 + z^2
Polynomial 2 is:
2x^0 + y^5 + z^0+8x^0 + y^0 + z^0
The Sum is : 4x^5 + y^0 + z^0+2x^0 + y^5 + z^0+2x^0 + y^4 + z^0+1x^0 + y^0 + z^2+8x^0 + y^0 + z^0
zaid Desktop $ 
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