

Data Structures & Algorithms by CodeWithHarry

This course will get you prepared for placements and will teach you how to create efficient and fast algorithms.

Data structures and algorithms are two different things.

Data Structures: Arrangement of data so that they can be used efficiently in memory (data items)

Algorithms: Sequence of steps on data using efficient data structures to solve a given problem.

Other Terminology

Database -: Collection of information in permanent storage for faster retrieval and updation.

Data warehousing -: Management of huge amount of legacy data for better analysis.

Big data -: Analysis of too large or complex data which cannot be dealt with traditional data processing application.

Data Structures and Algorithms are nothing new. If you have done programming in any language like C you must have used Arrays → A data structure and some sequence of processing steps to solve a problem → Algorithm 😊

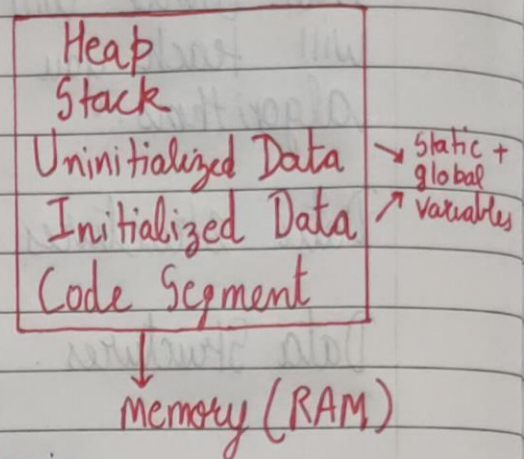
Memory layout of C programs

When the program starts, its code is copied to the main memory.

Stack holds the memory occupied by the functions.

Heap contains the data which is requested by the program as dynamic memory.

Initialized and uninitialized data segments hold initialized and uninitialized global variables respectively.



Cypress Dental Administrators

Payee ID: 116011

Payee Name: MODERN DENTAL AND IMPLANTS

Remittance Date: 02/25/2022

**Please address questions to:**

Cypress Dental Administrators
7510 Shoreline Drive
Stockton, CA 95219

Contact: Cypress Dental
Phone: (800)350-3989
Fax: (209)478-5614

MODERN DENTAL AND IMPLANTS
601 W Kettleman Ln
Lodi, CA 95240

Current Period: 02/25/2022
Payee ID: 116011
Phone: (209)366-1850
Fax: (209)333-1879
Tax ID: 844033236

Remittance Summary

Fee For Service:	\$245.00
Budget Allocation:	\$0.00
Capitation:	\$0.00
Case Fees:	\$0.00
Additional Compensation:	\$0.00
Prior Period Recovery and other Payee Adjustments:	\$0.00
Total:	\$245.00

Thank you for choosing Cypress Dental!

This statement shows how Cypress Dental determined the member benefits. We are providing this data for informational purposes only. If you see an issue with the claim information or reimbursement, please note the following:

Corrected Claims

To make a claim correction, send the original claim, supporting documentation, and original check to:

Cypress Dental Corrected Claims
PO Box 557
Milwaukee, WI 53201-0557

Appeals

To appeal a determination on a claim, send the original claim with supporting documentation to:

Cypress Dental Appeals
PO Box 102
Milwaukee, WI 53201-0102

Refunds

To issue a refund, please send the check with the original claim information to:

Cypress Dental Refunds
PO Box 1998
Milwaukee, WI 53201-1998

We are Here to Help

For further questions, please contact us Monday - Friday, 8am - 5pm PST.

Member Services 800-350-3989
Provider Services 800-350-3989

Cypress Dental Administrators

Payee ID: 116011

Payee Name: MODERN DENTAL AND IMPLANTS

Remittance Date: 02/25/2022

Fee For Service Summary

MODERN DENTAL AND IMPLANTS
601 W Kettleman Ln
Lodi, CA 95240

Provider	Location	Amount Billed	Amount Payable	Patient Pay	Other Insurance	Prior Mo. Adj	Net Amount
BEN UDAS	MODERN DENTAL AND IMPLANTS	\$345.00	\$345.00	\$100.00	\$0.00	\$0.00	\$245.00
Totals:		\$345.00	\$345.00	\$100.00	\$0.00	\$0.00	\$245.00

Cypress Dental Administrators

Payee ID: 116011

Payee Name: MODERN DENTAL AND IMPLANTS

Remittance Date: 02/25/2022

Services Detail

FFS - Fee For Service	GBA - Global Budget Allocation
CAP - Capitation	CASE - Case Fee
ENC - Encounter Payment	

Patient Name: MACIAS, LIZET

Subscriber/Member: 4622061643 / 04

DOB: 12/21/1999

Office Reference No: SW2IW01ME

Provider Name: BEN UDAS

Provider/Loc ID: 111616 / 105354

Plan: Cypress Dental

Product: PPOD3203EEEEU130MXIX

Encounter #: 20220218112019

Referral #:

Referral Date:

Benefit Level: Out of Network

ITM	DOS	CODE	POS	QTY	BILLED		QTY	ALLOWED		PAY %	PAYABLE AMOUNT	COPAY AMOUNT	COINS AMOUNT	DEDUCT AMOUNT	PATIENT PAY	OTHER INSUR	NET AMOUNT	PAY CODE
					AMOUNT	AMOUNT		AMOUNT	AMOUNT									
1	02/16/22	D1110 00	11	1	\$84.00		1	\$84.00		100.00%	\$84.00	\$0.00	\$0.00	\$50.00	\$50.00	\$0.00	\$34.00	FFS
					\$84.00			\$84.00			\$84.00	\$0.00	\$0.00	\$50.00	\$50.00	\$0.00	\$34.00	

Patient Name: MACIAS, OSCAR

Subscriber/Member: 4622061643 / 03

DOB: 02/13/1998

Office Reference No: SW2GW03O5

Provider Name: BEN UDAS

Provider/Loc ID: 111616 / 105354

Plan: Cypress Dental

Product: PPOD3203EEEEU130MXIX

Encounter #: 20220216110997

Referral #:

Referral Date:

Benefit Level: Out of Network

ITM	DOS	CODE	POS	QTY	BILLED		QTY	ALLOWED		PAY %	PAYABLE AMOUNT	COPAY AMOUNT	COINS AMOUNT	DEDUCT AMOUNT	PATIENT PAY	OTHER INSUR	NET AMOUNT	PAY CODE
					AMOUNT	AMOUNT		AMOUNT	AMOUNT									
1	02/15/22	D0120 00	11	1	\$61.00		1	\$61.00		100.00%	\$61.00	\$0.00	\$0.00	\$50.00	\$50.00	\$0.00	\$11.00	FFS
2	02/15/22	D0274 00	11	1	\$62.00		1	\$62.00		100.00%	\$62.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$62.00	FFS
3	02/15/22	D0220 00	11	1	\$32.00		1	\$32.00		100.00%	\$32.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$32.00	FFS
4	02/15/22	D0230 00	11	1	\$22.00		1	\$22.00		100.00%	\$22.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$22.00	FFS
5	02/15/22	D1110 00	11	1	\$84.00		1	\$84.00		100.00%	\$84.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$84.00	FFS
					\$261.00			\$261.00			\$261.00	\$0.00	\$0.00	\$50.00	\$50.00	\$0.00	\$211.00	