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| [InterviewQs](http://url4828.interviewqs.com/ls/click?upn=qwT-2Bl0U064-2B7oRNpPgUya7ecPmGRwE2khpP-2F5cNr-2FmX-2B6PqYxRHzWlRa-2B8ecgLBA9-2BqgBN6N-2BlN6LynvPDDX8gP5GJnL7P-2FdFw86KOd0IkE-3DlgIs_IX5HKWnhXeILdZHF1orS-2BlB9GK8lB7SYfPoy-2FMuH4KRohMZLpajhsnIOVcXh9Dl1-2FEM0gexeUVi2uV8saiYk-2BIoemGnh34m-2BtT-2BROOE0Lc-2Bkopd6Z27bKGuv7dOuQ73sXkNsOgMybAyt1cBiJAwdfrsAeeJh5bJa8Hot90W16qZ7R-2BtpW-2FgA186GOcU67cb6smLWZ5w8EYBnmTY1vWa-2Fk5IC2fbs8f31S1EdYEyGzuz6bZ0pnhpHvJq-2FVw6b3j7rNFEda7RYB-2FKl-2BjET-2Bln-2B2W7MQQa8Dg5JJmBf56NJptK72FsDgciXDzizECiWoBbCvO93AOpM4XVCP7yJS-2BnrrKMuv-2BgAi0-2F-2FSbn-2FIbaSk7PwbeJ4xfh20V81At-2BvV-2Fbx) |

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| **American Football Scoring** |

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| ***Python, Algorithms*** |

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| There are a few ways we can score in American Football:   * 1 point - After scoring a touchdown, the team can choose to score a field goal * 2 points - (1) after scoring touchdown, a team can choose to score a conversion, when the team attempts to score a secondary touchdown or (2) an uncommon way to score, a safety is score when the opposing team causes the ball to become dead * 3 points - If no touchdown is scored on the possession, a team can attempt to make a field goal * 6 points - Awarded for a touchdown   Given the above the potential point values for American Football are:   * 2 points - safety * 3 points - only field goal * 6 points - only touchdown * 7 points - touchdown + field goal * 8 points - touchdown + conversion   Given a score value, can you **write a function that lists the possible ways the score could have been achieved**?  For example, if you're given the value 10 the potential values are:   * 8 points (touchdown + conversion) + 2 points (safety) * 6 points (only touchdown) + 2x2 points (safety) * 7 points (touchdown + field goal) + 3 points (only field goal) * 5x2 points (safety)   2x2 points (safety) + 2x3 points (only field goal) |